



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

May 20, 2020

Jeff Thomas  
President & CEO  
c/o Christian Klamar  
Selective Micro Technologies, LLC  
6200 Avery Road, Suite A  
Dublin, OH 45380

Subject: Label Amendment: Emerging Viral Pathogens Claim  
Product Name: Selectocide 2L500  
EPA Registration Number: 74986-4  
Application Date: 04/30/2020  
Decision Number: 562376

Dear Mr. Thomas:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Because you have opted to add statements pertaining to emerging viral pathogens to your label as described in the August 19, 2016, Guidance to Registrants: Process For Making Claims Against Emerging Viral Pathogens Not On EPA-Registered Disinfectant Labels ("Guidance"), [https://www.epa.gov/sites/production/files/2016-09/documents/emerging\\_viral\\_pathogen\\_program\\_guidance\\_final\\_8\\_19\\_16\\_001\\_0.pdf](https://www.epa.gov/sites/production/files/2016-09/documents/emerging_viral_pathogen_program_guidance_final_8_19_16_001_0.pdf), you are subject to the following additional terms of registration:

1. You may make statements pertaining to emerging viral pathogens only through the following communications outlets: technical literature distributed exclusively to health care facilities, physicians, nurses and public health officials, "1-800" consumer information services, social media sites and company websites (non-label related). These statements shall not appear on marketed (final print) product labels.

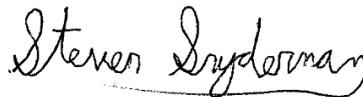
2. Your statements pertaining to emerging viral pathogens must adhere to the format approved on the Agency-accepted master label.
3. You may make statements pertaining to emerging viral pathogens only upon a disease outbreak that meets all the following criteria:
  - a. The causative organism must be a virus that causes an infectious disease that has appeared in a human or animal population in the U.S. for the first time, or that may have existed previously but is rapidly increasing in incidence or geographic range.
    - i. For human disease, the outbreak is listed in one of the following Centers for Disease Control (CDC) publications:
      - A. CDC Current Outbreak List for “U.S. Based Outbreaks” ([www.cdc.gov/outbreaks](http://www.cdc.gov/outbreaks)),
      - B. CDC Current Outbreak List for “Outbreaks Affecting International Travelers” with an “Alert” or “Advisory” classification ([www.cdc.gov/outbreaks](http://www.cdc.gov/outbreaks)) (also released through the CDC’s Health Alert Network (HAN) notification process)
      - C. Healthcare-Associated Infections (HAIs) Outbreaks and Patient Notifications page ([www.cdc.gov/hai/outbreaks](http://www.cdc.gov/hai/outbreaks))
    - ii. For animal disease, the outbreak is identified as an infectious disease outbreak in animals within the U.S. on the World Organization for Animal Health (OIE) Weekly Disease Information page ([www.oie.int/wahis\\_2/public/wahid.php/Diseaseinformation/WI](http://www.oie.int/wahis_2/public/wahid.php/Diseaseinformation/WI)).
      - A. The CDC or OIE has identified the taxonomy, including the viral family and/or species, of the pathogen and provides notice to the public of the identity of the emerging virus that is responsible for an infectious disease outbreak. Based on the taxonomy of the outbreak pathogen identified by the CDC or OEI, the pathogen's viral subgroup are small non-enveloped, large non-enveloped, and enveloped.
      - B. The virus can be transmitted via environmental surfaces (non-vector transmission), and environmental surface disinfection has been recommended by the CDC, OIE or EPA to control the spread of the pathogen.
4. You may begin communicating statements pertaining to emerging viral pathogens only upon CDC or OIE’s publication per term 3.a. of an outbreak of an emerging viral pathogen meeting all of the criteria of term 3. You must cease and remove all such non-label communications intended for consumers no later than 24 months after the original publication of the outbreak per term 3.a., unless the Agency issue written guidance to the contrary due to continued public health concerns. The emerging pathogen claim language may remain on the master label.

5. Terms from points 1 through 4 above shall become immediately void and ineffective if registration for use against Poliovirus and Canine Parvovirus are suspended or cancelled or no longer meets the criteria for a disinfectant claim (see EPA Product Performance Test Guideline 810.2200). In addition, terms B.1 through B.4 above shall become immediately void and ineffective upon your receipt of evidence of ineffectiveness against any pathogen in a less-resistant Spaulding category.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, you may contact the disinfectants list at [disinfectantslist@epa.gov](mailto:disinfectantslist@epa.gov).

Sincerely,



Steven Snyderman, Acting Product Manager 33  
Regulatory Management Branch 1  
Antimicrobials Division (7510P)  
Office of Pesticide Programs

Enclosure: stamped label

MASTER LABEL [Bracketed Language is Optional]

# Selectroicide® -2L500-

**ALTERNATE BRAND NAMES:**

**SELECTROICIDE POUCH [CONTAINER] @ 100 MG**  
**SELECTROICIDE POUCH [CONTAINER] @ 200 MG;**  
**CLO2BBER 100 ABRIDGED**

**DISINFECTANT/SANITIZER/VIRUCIDE\***  
**FUNGICIDE/ALGAECIDE/SLIMICIDE/DEODORIZER**

*[PRODUCES TWO LITERS OF 500 PPM CHLORINE DIOXIDE SOLUTION WHEN ACTIVATED]*  
*[PRODUCES TWO LITERS OF 50 PPM CHLORINE DIOXIDE SOLUTION WHEN ACTIVATED]*  
*[PRODUCES TWO LITERS OF 100 PPM CHLORINE DIOXIDE SOLUTION WHEN ACTIVATED]*  
*[PRODUCES ONE LITER OF 100 PPM CHLORINE DIOXIDE SOLUTION WHEN ACTIVATED]*

**NOTE:** This product is registered for public health, non-public health, plant and crop, and broad aesthetic uses. Please refer accompanying technical bulletin for each application in greater detail.

*[Room Temperature was effectiveness temperature for each concentration claim]*

When used as directed, this chlorine dioxide-generating product is proven effective as: a gram-negative **bactericide** against *carbapenem-resistant Enterobacteriaceae: Klebsiella pneumoniae (CRKP)*, a **disinfectant** against *Pseudomonas aeruginosa, Staphylococcus aureus, Salmonella enterica, methicillin-resistant S. aureus (MRSA), vancomycin-resistant Enterococcus faecalis, Listeria monocytogenes, and Candida albicans*; a **fungicide** against *Trichophyton mentagrophytes [interdigitale]* (athlete's foot); a **sanitizer** against *E. coli* (and *E. coli O157:H7*), *S. aureus, Salmonella typhimurium (MDRS), Klebsiella pneumonia, and Listeria monocytogenes*; a plant and crop **bactericide** against *Penicillium digitatum, Botrytis Sp, and Fusarium solani*; an **algaeicide** (*Phormidium boneri*) \***Viruses:** *Corona virus, Feline Calicivirus, Hepatitis A virus, Human Immunodeficiency virus type 1 (HIV-1), Poliovirus-1, Rotavirus, Influenza-A virus, Rhinovirus type 37, Canine Parvovirus, Adenovirus type 5, Herpes Simplex virus type 2, Vaccinia virus, and Norovirus (feline calici used as testing surrogate)*; \*kills Pandemic 2009 H1N1 Influenza A virus (formerly called swine flu). See Technical Bulletin (page 3) for ATCC designation numbers of the above-listed organisms.

**KEEP OUT OF REACH OF CHILDREN**  
**DANGER**

(See back panel for other cautions)

**Active Ingredient:**

Sodium Chlorite:.....30.5%  
Other Ingredients:..... 69.5%  
Total:.....100.0%

*Amount of Chlorine Dioxide generated = 0.05% [For Selectroicide@ 2L500]*

*[Amount of Chlorine Dioxide generated = 0.005%] [For Selectroicide@ Pouch [CONTAINER] 100MG] [2L SIZED POUCH [CONTAINER]]*

*[Amount of Chlorine Dioxide generated = 0.01%] [For Selectroicide@ Pouch [CONTAINER] 200MG]*

*[Amount of Chlorine Dioxide generated = 0.01%] [For CLO2BBER 100]*

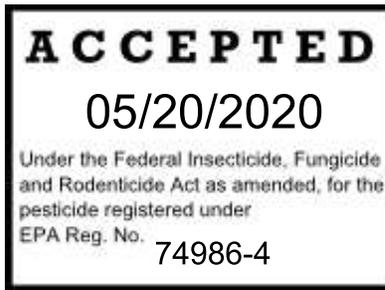
**FIRST AID**

**If in Eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**If on Skin or Clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**If Swallowed:** Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**If Inhaled:** Remove victim to fresh air. If person is not breathing, call 911 or an



## MASTER LABEL [Bracketed Language is Optional]

ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.  
Call a poison control center or doctor for treatment advice. Get medical attention.

[NOTE: THIS PRODUCT IS DESIGNED TO FULLY COMPARTMENTALIZE DRY INGREDIENTS INSIDE A HYDROPHOBIC ENVELOPE. UNDER NORMAL USE CONDITIONS AND UNLESS SEALED PRODUCT ENVELOPE IS COMPROMISED, CONTACT WITH DRY INGREDIENTS SHOULD NOT OCCUR. HOWEVER, IF SEALED PRODUCT ENVELOPE IS COMPROMISED AND THE POTENTIAL FOR CONTACT WITH DRY INGREDIENTS OCCURS, THE ABOVE PRECAUTIONARY HANDLING STATEMENT SHOULD BE FOLLOWED.]

Have the product container or label with you when calling a poison control center, doctor, or going for treatment. For emergency information concerning this product, call the National Pesticides Information Center (NPIC Web site: [www.npic.orst.edu](http://www.npic.orst.edu)).

**Note to Physician:** Probable mucosal damage may contraindicate the use of gastric lavage.

EPA Registration No. 74986-4

EPA Establishment No. 090569-OH-001

Manufactured for: Selective Micro Technologies, LLC 6200 Avery Rd. Suite A Dublin,  
OH 43016 [www.selectivemicro.com](http://www.selectivemicro.com)

Net Weight of contents... 0.44 ounces (12.34 grams)  
[0.05 ounces (1.52 grams) 2L SIZED Pouch [CONTAINER]]  
[0.08 ounces (2.42 grams)]  
[0.05 ounces (1.52 grams)]

### **PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER:** DRY INGREDIENTS: CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGE AND CAUSES SKIN BURNS. HARMFUL IF SWALLOWED. WEAR PROTECTIVE EYEWEAR (GOGGLES, FACE SHIELD OR SAFETY GLASSES). WEAR PROTECTIVE GLOVES. IF CONTACT WITH DRY INGREDIENTS OCCURS, WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING AND BEFORE EATING, DRINKING, CHEWING GUM, USING TOBACCO OR USING THE TOILET. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE.

### **PHYSICAL OR CHEMICAL HAZARDS**

DRY SODIUM CHLORITE IS INCOMPATIBLE WITH ACIDS, REDUCING AGENTS, COMBUSTIBLE MATERIALS, SULFUR-CONTAINING RUBBER, SOLVENTS AND PAINTS. KEEP ACTIVATED SOLUTION FROM LIGHT AND HEAT. CHLORINE DIOXIDE GAS MAY CONCENTRATE IN OPEN SPACE OF CONTAINER IN WHICH PRODUCT IS ACTIVATED. ALWAYS DILUTE ACTIVATED PRODUCT IN WELL-VENTILATED AREA. ALLOW PRODUCT TO FULLY GENERATE PRIOR TO USE.

**NOTE:** For use in the institutional or commercial applications discussed below and in the accompanying Technical Bulletin. Not for use in households or where young children may be present. Cap is not child-resistant.

### **STORAGE AND DISPOSAL**

DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE AND DISPOSAL. STORE IN COOL, DRY, VENTILATED AREA. STORE BELOW 50C (122F). KEEP PRODUCT OUT OF DIRECT SUNLIGHT. STORE SEPARATELY FROM WATER AND ACIDS. IF PACKAGE RUPTURES AND CONTENTS SPILL, DO NOT PERMIT CONTACT OF CONTENTS WITH ORGANIC MATERIALS (FOR EXAMPLE: CLOTHING OR COMBUSTIBLE MATERIALS) OR ACIDS. PESTICIDE WASTES ARE TOXIC. IMPROPER DISPOSAL OF EXCESS DRY PESTICIDE IS A VIOLATION OF FEDERAL LAW. IF THIS PRODUCT CANNOT BE USED ACCORDING TO LABEL INSTRUCTIONS, CONTACT YOUR STATE PESTICIDE OR ENVIRONMENTAL CONTROL AGENCY, OR THE HAZARDOUS WASTE REPRESENTATIVE AT THE NEAREST EPA REGIONAL OFFICE FOR GUIDANCE. NONREFILLABLE CONTAINER. DO NOT REUSE OR REFILL THIS CONTAINER. OFFER FOR RECYCLING, IF AVAILABLE, OR DISPOSE OF SPENT ENVELOPE IN A SANITARY LANDFILL OR BY INCINERATION, OR IF ALLOWED BY STATE AND LOCAL AUTHORITIES, BY BURNING. IF BURNED, STAY OUT OF SMOKE.

**WARRANTY STATEMENT:** The Company warrants the product to be free from defects in material and workmanship. THE COMPANY MAKES NO WARRANTY THAT THE GOODS SHALL BE MERCHANTABILITY. THE COMPANY MAKES NO WARRANTY, EXPRESSED OR IMPLIED, EXCEPT SUCH AS IS EXPRESSLY SET FORTH HEREIN. The Company shall not be liable for any incidental or consequential damages for any breach of warranty. The Company's liability for any breach of warranty shall be limited to the purchase price of the product.

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When used as directed, on hard, non-porous surfaces (e.g., stainless steel, brass, glass, vinyl, PVC, polypropylene), this product is an effective sanitizer, disinfectant, virucide\*, plant and crop bactericide, fungicide, algacide, general-purpose antimicrobial and cleaner for use in a wide range of applications, including but not limited to: hospitals; medical & veterinary facilities; pharmaceutical production facilities, including equipment (e.g., ultracentrifuges); wineries, breweries, and beverage / bottling plants; laboratories and other clinical settings; potable and non-potable water systems and attendant equipment & tubing; restaurants and food processing plants; and greenhouses/horticultural settings. Heavily soiled surfaces must be pre-cleaned prior to treatment. Apply by mop, sponge, or sprayer, ensuring visible wetness for times specified for these applications, or apply through immersion or clean-in-place application. Wear a NIOSH/MHSA-approved respirator appropriate for chlorine dioxide when using a high-pressurized sprayer and under other circumstances detailed in the Technical Bulletin.

### SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATING SURFACES AND OBJECTS PREVIOUSLY SOILED WITH BLOOD BODY FLUIDS POTENTIALLY CONTAINING HUMAN IMMUNODEFICIENCY VIRUS TYPE 1 (HIV-1) (at 100 ppm/10 min. contact time)

- Wear protective barriers such as disposable latex gloves, gowns, masks, and eye coverings when handling items soiled with blood or body fluids.
- Blood and other body fluids must be thoroughly cleaned from surfaces and objects before application of Selectocide 2L500
- Blood, other body fluids, and contaminated cleaning materials should be autoclaved and disposed of according to local regulations for infectious waste disposal.

### **FOR POUCH [CONTAINER] SIZE OF 0.44 OUNCES (12.34 GRAMS):**

**DIRECTIONS FOR USE: IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH THE LABELING. READ THE ENTIRE LABEL AND USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND USE.**

- 1.) Fill the pouch [CONTAINER] with tap water (2 liters) to generate the chlorine dioxide solution.
- 2.) Wait at least 2 hours before use to ensure solution reaches full strength to reach 500ppm.
- 3.) Shake gently before use. Direct spout away from face when opening, work in well-ventilated area, and avoid inhaling fumes. Wear protective gloves if hands will come in contact with activated solution during dilution or application.
- 4.) See Technical Bulletin for recommendations regarding dilutions and contact times for specific applications. Before use, verify concentration using Selective Micro Chlorine Dioxide Test Strips to ensure appropriate concentration (see Technical Bulletin for directions if Test Strips indicate lower-than-desired concentration).
- 5.) Activate prior to expiration date stamped on package. Store unused solution (and/or subsequent dilutions) in a dark, oxidation-resistant closed or sealed container. Record activation date and concentration on stick-on label shipped with the product, and affix to storage container. Store activated solution in cool place out of direct sunlight (do not store in refrigerator dedicated to food storage).

Note: Verify concentration using Selective Micro® Test Strips. For concentrations above 10ppm, use Selective Micro® Wide Range test strips; for concentrations of 10ppm or less, use Selective Micro® Low Range test strips.

### **FOR POUCH [CONTAINER] SIZE OF 0.44 OUNCES (12.34 GRAMS) USE THE FOLLOWING GENERAL DILUTIONS AND TABLE**

General Dilution Instructions: All dilutions begin with a stock solution at a nominal concentration of 500 ppm, except when the product is activated directly to the application concentration (see technical bulletin). Except where otherwise directed, or

## MASTER LABEL [Bracketed Language is Optional]

for other use concentrations (see technical bulletin), use the following dilution instructions to achieve the use concentration indicated:

To Achieve Use Concentration of:	Standard Use Dilution Device or Sprayer With a Dilution Ratio of:
100 ppm	1:5 (one part 500 ppm solution to 4 parts water)
50 ppm	1:10 (one part 500 ppm solution to 9 parts water)
20 ppm	1:25 (one part 500 ppm solution to 24 parts water)
5 ppm	1:100 (one part 500 ppm solution to 99 parts water)
0.25 ppm	1:2,000 (one part 500 ppm solution to 1,999 parts water)
<b>To Achieve Use Concentration of:</b>	<b>Bactericide against carbapenem-resistant Enterobacteriaceae: Klebsiella pneumonia (CRKP)</b>
800 ppm	Generate (1) 1G in 1.5 liters of water for 4 hours

Please reference Master Label Technical Bulletin for Detailed Use Patterns and Dilution Rates.

### **FOR POUCH [CONTAINER] SIZE OF 0.08 OUNCES (2.42 GRAMS):**

1. Fill the Selectocide® Pouch [CONTAINER] 200MG pouch [CONTAINER] with tap water (2 liters) to generate the chlorine dioxide solution.
2. **WAIT 1 HOUR BEFORE USE TO ENSURE SOLUTION REACHES FULL STRENGTH AT 100 PPM.**
3. Shake gently before use. Direct spout away from face when opening, work in well-ventilated area, and avoid inhaling fumes. Wear protective gloves if hands will come in contact with activated solution during dilution or application. [In order to generate 500 ppm stock solution, fill pouch [CONTAINER] with tap water (0.04 liters) and wait 2 hours before use to ensure solution reaches its full strength. Follow instructions for dilution using dilution tables in label and technical bulletin. Wear protective gloves and wear a NIOSH/MHSA-approved respirator appropriate for chlorine dioxide when using product at full strength.]
4. See Technical Bulletin for recommendations regarding dilutions and contact times for specific applications. Before use, verify concentration using *Selective Micro® Chlorine Dioxide Test Strips* to ensure appropriate concentration (see Technical Bulletin for directions if *Test Strips* indicate lower-than-desired concentration).
5. Activate prior to expiration date stamped on package. Store unused solution (and/or subsequent dilutions) in a dark, oxidation-resistant closed or sealed container. Record activation date and concentration on stick-on label shipped with the product, and affix to storage container. Store activated solution in cool place out of direct sunlight (do not store in refrigerator dedicated to food storage).

Note: Verify concentration using Selective Micro® Test Strips. For concentrations above 10ppm, use Selective Micro® Wide Range test strips; for concentrations of 10ppm or less, use Selective Micro® Low Range test strips.

### **FOR POUCH [CONTAINER] SIZE OF 0.08 OUNCES (2.42 GRAMS) USE THE FOLLOWING GENERAL DILUTION INSTRUCTIONS**

General Dilution Instructions: All dilutions begin with a solution at a nominal concentration of 100 ppm, except when the product is activated directly to strength of stock solution (see technical bulletin). Except where otherwise directed, or for other use concentrations (see technical bulletin), use the following dilution instructions to achieve the use concentration indicated:

To Achieve Use Concentration of:	Use Dilution Device or Sprayer With a Dilution Ratio of:
100 ppm	Do Not Dilute
50 ppm	1:2 (one part 100 ppm solution to 1 parts water)
20 ppm	1:5 (one part 100 ppm solution to 4 parts water)
5 ppm	1:20 (one part 100 ppm solution to 19 parts water)
0.25 ppm	1:400 (one part 100 ppm solution to 399 parts water)

Pease reference Master Label Technical Bulletin for Detailed Use Patterns and Dilution Rates.

**MASTER LABEL [Bracketed Language is Optional]  
FOR POUCH [CONTAINER] SIZE OF 0.05 OUNCES (1.52 GRAMS):**

1. Fill the CLO2BBER 100 pouch [CONTAINER] with tap water (1 liter) to generate the chlorine dioxide solution.
2. **WAIT 30 MINUTES BEFORE USE TO ENSURE SOLUTION REACHES FULL STRENGTH AT 100 PPM.**
3. Shake gently before use. Direct spout away from face when opening, work in well-ventilated area, and avoid inhaling fumes. Wear protective gloves if hands will come in contact with activated solution during dilution or application. [In order to generate 500 ppm stock solution, fill pouch [CONTAINER] with tap water (0.2 liters) and wait 2 hours before use to ensure solution reaches its full strength. Follow instructions for dilution using dilution tables in label and technical bulletin. Wear protective gloves and wear a NIOSH/MHSA-approved respirator appropriate for chlorine dioxide when using product at full strength.]
4. See Technical Bulletin for recommendations regarding dilutions and contact times for specific applications. Before use, verify concentration using Selective Micro® Chlorine Dioxide Test Strips to ensure appropriate concentration (see Technical Bulletin for directions if Test Strips indicate lower-than-desired concentration).
5. Activate prior to expiration date stamped on package. Store unused solution (and/or subsequent dilutions) in a dark, oxidation-resistant closed or sealed container. Record activation date and concentration on stick-on label shipped with the product, and affix to storage container. Store activated solution in cool place out of direct sunlight (do not store in refrigerator dedicated to food storage).

Note: Verify concentration using Selective Micro® Test Strips. For concentrations above 10ppm, use Selective Micro® Wide Range test strips; for concentrations of 10ppm or less, use Selective Micro® Low Range test strips.

**FOR POUCH [CONTAINER] SIZE OF 0.05 OUNCES (1.52 GRAMS) USE THE FOLLOWING GENERAL DILUTION INSTRUCTIONS**

General Dilution Instructions: All dilutions begin with a solution at a nominal concentration of 100 ppm, except when the product is activated directly to strength of stock solution (see technical bulletin). Except where otherwise directed, or for other use concentrations (see technical bulletin), use the following dilution instructions to achieve the use concentration indicated:

To Achieve Use Concentration of:	Use Dilution Device or Sprayer With a Dilution Ratio of:
100 ppm	Do Not Dilute
50 ppm	1:2 (one part 100 ppm solution to 1 parts water)
20 ppm	1:5 (one part 100 ppm solution to 4 parts water)
5 ppm	1:20 (one part 100 ppm solution to 19 parts water)
0.25 ppm	1:400 (one part 100 ppm solution to 399 parts water)

**FOR POUCH [CONTAINER] SIZE OF 0.05 OUNCES (1.52 GRAMS) 2L SIZED POUCH [CONTAINER]:**

1. Fill the Selectocide® Pouch [CONTAINER] 100MG pouch [CONTAINER] with tap water (2 liter) to generate the chlorine dioxide solution.
2. **WAIT 60 MINUTES BEFORE USE TO ENSURE SOLUTION REACHES FULL STRENGTH AT 50 PPM.**
3. Shake gently before use. Direct spout away from face when opening, work in well-ventilated area, and avoid inhaling fumes. Wear protective gloves if hands will come in contact with activated solution during dilution or application. [In order to generate 500 ppm stock solution, fill pouch [CONTAINER] with tap water (0.1 liters) and wait 2 hours before use to ensure solution reaches its full strength. Follow instructions for dilution using dilution tables in label and technical bulletin. Wear protective gloves and wear a NIOSH/MHSA-approved respirator appropriate for chlorine dioxide when using product at full strength.]
4. See Technical Bulletin for recommendations regarding dilutions and contact times for specific applications. Before use, verify concentration using Selective Micro® Chlorine Dioxide Test Strips to ensure appropriate concentration (see Technical Bulletin for directions if Test Strips indicate lower-than-desired concentration).

## MASTER LABEL [Bracketed Language is Optional]

5. Activate prior to expiration date stamped on package. Store unused solution (and/or subsequent dilutions) in a dark, oxidation-resistant closed or sealed container. Record activation date and concentration on stick-on label shipped with the product, and affix to storage container. Store activated solution in cool place out of direct sunlight (do not store in refrigerator dedicated to food storage).

Note: Verify concentration using Selective Micro® Test Strips. For concentrations above 10ppm, use Selective Micro® Wide Range test strips; for concentrations of 10ppm or less, use Selective Micro® Low Range test strips.

### **FOR POUCH [CONTAINER] SIZE OF 0.05 OUNCES (1.52 GRAMS) 2L SIZED POUCH [CONTAINER] USE THE FOLLOWING GENERAL DILUTION INSTRUCTIONS**

General Dilution Instructions: All dilutions begin with a solution at a nominal concentration of 50 ppm, except when the product is activated directly to strength of stock solution (see technical bulletin). Except where otherwise directed, or for other use concentrations (see technical bulletin), use the following dilution instructions to achieve the use concentration indicated:

To Achieve Use Concentration of:	Use Dilution Device or Sprayer With a Dilution Ratio of:
50 ppm	Do Not Dilute
20 ppm	1:2.5 (one part 500 ppm solution to 2.5 parts water)
5 ppm	1:10 (one part 50 ppm solution to 9 parts water)
0.25 ppm	1:200 (one part 50 ppm solution to 199 parts water)

**Pease reference Master Label Technical Bulletin for Detailed Use Patterns and Dilution Rates.**

MASTER LABEL [Bracketed Language is Optional]

# Selectroicide®

## – POUCH 100MG –

DISINFECTANT/SANITIZER/VIRUCIDE\*/FUNGICIDE/ALGAECIDE/SLIMICIDE/DEODORIZER

**[PRODUCES TWO LITERS OF 50 PPM CHLORINE DIOXIDE SOLUTION WHEN ACTIVATED]**

When used as directed, this chlorine dioxide-generating product is proven effective as: a **disinfectant** against *Pseudomonas aeruginosa*, *Staphylococcus aureus*, *Salmonella enterica*, methicillin-resistant *S. aureus* (MRSA), vancomycin-resistant *Enterococcus faecalis*, *Listeria monocytogenes*, and *Candida albicans*; a **fungicide** against *Trichophyton mentagrophytes [interdigitale]* (athlete's foot); a **sanitizer** against *E. coli* (and *E. coli* O157:H7), *S. aureus*, *Salmonella typhimurium* (MDRS), *Klebsiella pneumoniae*, and *Listeria monocytogenes*; a plant and crop **bactericide** against *Penicillium digitatum*, *Botrytis Sp.*, and *Fusarium solani*; and an **algaeicide** (*Phormidium boneri*). \***Viruses:** Corona virus, Feline Calicivirus, Hepatitis A virus, Human Immunodeficiency virus type 1 (HIV-1), Poliovirus-1, Rotavirus, Influenza-A virus, Rhinovirus type 37, Canine Parvovirus, Adenovirus type 5, Herpes Simplex virus type 2, Vaccinia virus, and Norovirus (feline calici used as testing surrogate); \*kills Pandemic 2009 H1N1 Influenza A virus (formerly called swine flu). See Technical Bulletin (page 3) for ATCC designation numbers of the above-listed organisms.

**KEEP OUT OF REACH OF CHILDREN  
DANGER**

(See back panel for other cautions)

Active Ingredient:  
Sodium Chlorite:.....30.5%  
Other Ingredients:..... 69.5%  
Total:.....100.0%

*Amount of Chlorine Dioxide generated = 0.005%*

Net Weight of contents..... 1.52  
grams

### FIRST AID

**If in Eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**If on Skin or Clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**If Swallowed:** Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**If Inhaled:** Remove victim to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for treatment advice. Get medical attention.

Have the product container or label with you when calling a poison control center, doctor, or going for treatment. For emergency information concerning this product, call the National Pesticides Information Center (NPIC Web site: [www.npic.orst.edu](http://www.npic.orst.edu)).

**Note to Physician:** Probable mucosal damage may contraindicate the use of gastric lavage.

EPA Registration No. 74986-4

EPA Establishment No. 090569-OH-001

Manufactured for: Selective Micro Technologies, LLC 6200 Avery Rd. Suite A Dublin,  
OH 43016 [www.selectivemicro.com](http://www.selectivemicro.com)

## MASTER LABEL [Bracketed Language is Optional]

### **PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER:** DRY INGREDIENTS: CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGE AND CAUSES SKIN BURNS. HARMFUL IF SWALLOWED. WEAR PROTECTIVE EYEWEAR (GOGGLES, FACE SHIELD OR SAFETY GLASSES). WEAR PROTECTIVE GLOVES. IF CONTACT WITH DRY INGREDIENTS OCCURS, WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING AND BEFORE EATING, DRINKING, CHEWING GUM, USING TOBACCO OR USING THE TOILET. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE.

### **PHYSICAL OR CHEMICAL HAZARDS**

DRY SODIUM CHLORITE IS INCOMPATIBLE WITH ACIDS, REDUCING AGENTS, COMBUSTIBLE MATERIALS, SULFUR-CONTAINING RUBBER, SOLVENTS AND PAINTS. KEEP ACTIVATED SOLUTION FROM LIGHT AND HEAT. CHLORINE DIOXIDE GAS MAY CONCENTRATE IN OPEN SPACE OF CONTAINER IN WHICH PRODUCT IS ACTIVATED. ALWAYS DILUTE ACTIVATED PRODUCT IN WELL-VENTILATED AREA. ALLOW PRODUCT TO FULLY GENERATE PRIOR TO USE.

**NOTE: For use in the institutional or commercial applications discussed below and in the accompanying Technical Bulletin. Not for use in households or where young children may be present. Cap is not child-resistant.**

When used as directed, on hard, non-porous surfaces (e.g., stainless steel, brass, glass, vinyl, PVC, polypropylene), this product is an effective sanitizer, disinfectant, virucide\*, plant and crop bactericide, fungicide, algacide, general-purpose antimicrobial and cleaner for use in a wide range of applications, including but not limited to: hospitals; medical & veterinary facilities; pharmaceutical production facilities, including equipment (e.g., ultracentrifuges); wineries, breweries, and beverage / bottling plants; laboratories and other clinical settings; potable and non-potable water systems and attendant equipment & tubing; restaurants and food processing plants; and greenhouses/horticultural settings. Heavily soiled surfaces must be pre-cleaned prior to treatment. Apply by mop, sponge, or sprayer, ensuring visible wetness for times specified for these applications, or apply through immersion or clean-in-place application. Wear a NIOSH/MHSA-approved respirator appropriate for chlorine dioxide when using a high-pressurized sprayer and under other circumstances detailed in the Technical Bulletin.

### **SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATING SURFACES AND OBJECTS PREVIOUSLY SOILED WITH BLOOD BODY FLUIDS POTENTIALLY CONTAINING HUMAN IMMUNODEFICIENCY VIRUS TYPE 1 (HIV-1) (at 100 ppm/10 min. contact time)**

- Wear protective barriers such as disposable latex gloves, gowns, masks, and eye coverings when handling items soiled with blood or body fluids.
- Blood and other body fluids must be thoroughly cleaned from surfaces and objects before application of Selectocide Pouch [CONTAINER] 100MG
- Blood, other body fluids, and contaminated cleaning materials should be autoclaved and disposed of according to local regulations for infectious waste disposal.

### **DIRECTIONS FOR USE: IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH THE LABELING. READ THE ENTIRE LABEL AND USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND USE.**

1. Fill the Selectocide® Pouch [CONTAINER] 100MG pouch [CONTAINER] with tap water (2 liters) to generate the chlorine dioxide solution.
2. **WAIT AT LEAST 1 HOUR BEFORE USE TO ENSURE SOLUTION REACHES FULL STRENGTH AT 50 PPM.**
3. Shake gently before use. Direct spout away from face when opening, work in well-ventilated area, and avoid inhaling fumes. Wear protective gloves if hands will come in contact with activated solution during dilution or application.
4. See Technical Bulletin for recommendations regarding dilutions and contact times for specific applications. Before use, verify concentration using Selective Micro® Chlorine Dioxide Test Strips to ensure appropriate concentration (see Technical Bulletin for directions if Test Strips indicate lower-than-desired concentration).
5. Activate prior to expiration date stamped on package. Store unused solution (and/or subsequent dilutions) in a dark, oxidation-resistant closed or sealed container. Record activation date and concentration on stick-on label shipped with the product, and affix to storage container. Store activated solution in

## MASTER LABEL [Bracketed Language is Optional]

cool place out of direct sunlight (do not store in refrigerator dedicated to food storage).

Note: Verify concentration using Selective Micro® Test Strips. For concentrations above 10ppm, use Selective Micro® Wide Range test strips; for concentrations of 10ppm or less, use Selective Micro® Low Range test strips.

### **USE THE FOLLOWING GENERAL DILUTION INSTRUCTIONS**

General Dilution Instructions: All dilutions begin with a solution at a nominal concentration of 50 ppm, except when the product is activated directly to strength of stock solution (see technical bulletin). Except where otherwise directed, or for other use concentrations (see technical bulletin), use the following dilution instructions to achieve the use concentration indicated:

To Achieve Use Concentration of:	Use Dilution Device or Sprayer With a Dilution Ratio of:
50 ppm	No Dilution Required
20 ppm	1:2.5 (one part 100 ppm solution to 4 parts water)
5 ppm	1:10 (one part 100 ppm solution to 19 parts water)
0.25 ppm	1:800 (one part 100 ppm solution to 399 parts water)

**Pease reference Master Label Technical Bulletin for Detailed Use Patterns and Dilution Rates.**

### **STORAGE AND DISPOSAL**

DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE AND DISPOSAL. STORE IN COOL, DRY, VENTILATED AREA. STORE BELOW 50C (122F). KEEP PRODUCT OUT OF DIRECT SUNLIGHT. STORE SEPARATELY FROM WATER AND ACIDS. IF PACKAGE RUPTURES AND CONTENTS SPILL, DO NOT PERMIT CONTACT OF CONTENTS WITH ORGANIC MATERIALS (FOR EXAMPLE: CLOTHING OR COMBUSTIBLE MATERIALS) OR ACIDS. PESTICIDE WASTES ARE TOXIC. IMPROPER DISPOSAL OF EXCESS DRY PESTICIDE IS A VIOLATION OF FEDERAL LAW. IF THIS PRODUCT CANNOT BE USED ACCORDING TO LABEL INSTRUCTIONS, CONTACT YOUR STATE PESTICIDE OR ENVIRONMENTAL CONTROL AGENCY, OR THE HAZARDOUS WASTE REPRESENTATIVE AT THE NEAREST EPA REGIONAL OFFICE FOR GUIDANCE. NONREFILLABLE CONTAINER. DO NOT REUSE OR REFILL THIS CONTAINER. OFFER FOR RECYCLING, IF AVAILABLE, OR DISPOSE OF SPENT ENVELOPE IN A SANITARY LANDFILL OR BY INCINERATION, OR IF ALLOWED BY STATE AND LOCAL AUTHORITIES, BY BURNING. IF BURNED, STAY OUT OF SMOKE.

**WARRANTY STATEMENT:** The Company warrants the product to be free from defects in material and workmanship. THE COMPANY MAKES NO WARRANTY THAT THE GOODS SHALL BE MERCHANTABILITY. THE COMPANY MAKES NO WARRANTY, EXPRESSED OR IMPLIED, EXCEPT SUCH AS IS EXPRESSLY SET FORTH HEREIN. The Company shall not be liable for any incidental or consequential damages for any breach of warranty. The Company's liability for any breach of warranty shall be limited to the purchase price of the product.

MASTER LABEL [Bracketed Language is Optional]

# Selectrocid<sup>®</sup>

— POUCH 200MG —

DISINFECTANT/SANITIZER/VIRUCIDE\*/FUNGICIDE/ALGAECIDE/SLIMICIDE/DEODORIZER

[PRODUCES TWO LITERS OF 100 PPM CHLORINE DIOXIDE SOLUTION WHEN ACTIVATED]

When used as directed, this chlorine dioxide-generating product is proven effective as: a **disinfectant** against *Pseudomonas aeruginosa*, *Staphylococcus aureus*, *Salmonella enterica*, methicillin-resistant *S. aureus* (MRSA), vancomycin-resistant *Enterococcus faecalis*, *Listeria monocytogenes*, and *Candida albicans*; a **fungicide** against *Trichophyton mentagrophytes [interdigitale]* (athlete's foot); a **sanitizer** against *E. coli* (and *E. coli* O157:H7), *S. aureus*, *Salmonella typhimurium* (MDRS), *Klebsiella pneumoniae*, and *Listeria monocytogenes*; a plant and crop **bactericide** against *Penicillium digitatum*, *Botrytis Sp*, and *Fusarium solani*; and an **algicide** (*Phormidium boneri*). \***Viruses:** Corona virus, Feline Calicivirus, Hepatitis A virus, Human Immunodeficiency virus type 1 (HIV-1), Poliovirus-1, Rotavirus, Influenza-A virus, Rhinovirus type 37, Canine Parvovirus, Adenovirus type 5, Herpes Simplex virus type 2, Vaccinia virus, and Norovirus (feline calici used as testing surrogate); \*kills Pandemic 2009 H1N1 Influenza A virus (formerly called swine flu). See Technical Bulletin (page 3) for ATCC designation numbers of the above-listed organisms.

KEEP OUT OF REACH OF CHILDREN  
**DANGER**

(See back panel for other cautions)

Active Ingredient:  
Sodium Chlorite:.....30.5%  
Other Ingredients:..... 69.5%  
Total:.....100.0%

Amount of Chlorine Dioxide generated = 0.01%

Net Weight of contents..... 2.42  
grams

### FIRST AID

**If in Eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**If on Skin or Clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**If Swallowed:** Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**If Inhaled:** Remove victim to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for treatment advice. Get medical attention.

Have the product container or label with you when calling a poison control center, doctor, or going for treatment. For emergency information concerning this product, call the National Pesticides Information Center (NPIC Web site: [www.npic.orst.edu](http://www.npic.orst.edu)).

**Note to Physician:** Probable mucosal damage may contraindicate the use of gastric lavage.

EPA Registration No. 74986-4

EPA Establishment No. 090569-OH-001

Manufactured for: Selective Micro Technologies, LLC 6200 Avery Rd. Suite A Dublin,  
OH 43016 [www.selectivemicro.com](http://www.selectivemicro.com)

MASTER LABEL [Bracketed Language is Optional]

**PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS  
AND DOMESTIC ANIMALS**

**DANGER:** DRY INGREDIENTS: CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGE AND CAUSES SKIN BURNS. HARMFUL IF SWALLOWED. WEAR PROTECTIVE EYEWEAR (GOGGLES, FACE SHIELD OR SAFETY GLASSES). WEAR PROTECTIVE GLOVES. IF CONTACT WITH DRY INGREDIENTS OCCURS, WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING AND BEFORE EATING, DRINKING, CHEWING GUM, USING TOBACCO OR USING THE TOILET. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE.

**PHYSICAL OR CHEMICAL HAZARDS**

DRY SODIUM CHLORITE IS INCOMPATIBLE WITH ACIDS, REDUCING AGENTS, COMBUSTIBLE MATERIALS, SULFUR-CONTAINING RUBBER, SOLVENTS AND PAINTS. KEEP ACTIVATED SOLUTION FROM LIGHT AND HEAT. CHLORINE DIOXIDE GAS MAY CONCENTRATE IN OPEN SPACE OF CONTAINER IN WHICH PRODUCT IS ACTIVATED. ALWAYS DILUTE ACTIVATED PRODUCT IN WELL-VENTILATED AREA. ALLOW PRODUCT TO FULLY GENERATE PRIOR TO USE.

**NOTE: For use in the institutional or commercial applications discussed below and in the accompanying Technical Bulletin. Not for use in households or where young children may be present. Cap is not child-resistant.**

When used as directed, on hard, non-porous surfaces (e.g., stainless steel, brass, glass, vinyl, PVC, polypropylene), this product is an effective sanitizer, disinfectant, virucide\*, plant and crop bactericide, fungicide, algacide, general-purpose antimicrobial and cleaner for use in a wide range of applications, including but not limited to: hospitals; medical & veterinary facilities; pharmaceutical production facilities, including equipment (e.g., ultracentrifuges); wineries, breweries, and beverage / bottling plants; laboratories and other clinical settings; potable and non-potable water systems and attendant equipment & tubing; restaurants and food processing plants; and greenhouses/horticultural settings. Heavily soiled surfaces must be pre-cleaned prior to treatment. Apply by mop, sponge, or sprayer, ensuring visible wetness for times specified for these applications, or apply through immersion or clean-in-place application. Wear a NIOSH/MHSA-approved respirator appropriate for chlorine dioxide when using a high-pressurized sprayer and under other circumstances detailed in the Technical Bulletin.

**SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATING SURFACES AND OBJECTS PREVIOUSLY SOILED WITH BLOOD BODY FLUIDS POTENTIALLY CONTAINING HUMAN IMMUNODEFICIENCY VIRUS TYPE 1 (HIV-1) (at 100 ppm/10 min. contact time)**

- Wear protective barriers such as disposable latex gloves, gowns, masks, and eye coverings when handling items soiled with blood or body fluids.
- Blood and other body fluids must be thoroughly cleaned from surfaces and objects before application of Selectocide Pouch [CONTAINER] 200MG
- Blood, other body fluids, and contaminated cleaning materials should be autoclaved and disposed of according to local regulations for infectious waste disposal.

**DIRECTIONS FOR USE: IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH THE LABELING. READ THE ENTIRE LABEL AND USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND USE.**

1. Fill the Selectocide® Pouch [CONTAINER] 200MG pouch [CONTAINER] with tap water (2 liters) to generate the chlorine dioxide solution.
2. **WAIT AT LEAST 1 HOUR BEFORE USE TO ENSURE SOLUTION REACHES FULL STRENGTH AT 100 PPM.**
3. Shake gently before use. Direct spout away from face when opening, work in well-ventilated area, and avoid inhaling fumes. Wear protective gloves if hands will come in contact with activated solution during dilution or application.
4. See Technical Bulletin for recommendations regarding dilutions and contact times for specific applications. Before use, verify concentration using *Selective Micro® Chlorine Dioxide Test Strips* to ensure appropriate concentration (see Technical Bulletin for directions if *Test Strips* indicate lower-than-desired concentration).
5. Activate prior to expiration date stamped on package. Store unused solution (and/or subsequent dilutions) in a dark, oxidation-resistant closed or sealed container. Record activation date and concentration on stick-on label shipped with the product, and affix to storage container. Store activated solution in

## MASTER LABEL [Bracketed Language is Optional]

cool place out of direct sunlight (do not store in refrigerator dedicated to food storage).

Note: Verify concentration using Selective Micro® Test Strips. For concentrations above 10ppm, use Selective Micro® Wide Range test strips; for concentrations of 10ppm or less, use Selective Micro® Low Range test strips.

### **USE THE FOLLOWING GENERAL DILUTION INSTRUCTIONS**

General Dilution Instructions: All dilutions begin with a solution at a nominal concentration of 100 ppm, except when the product is activated directly to strength of stock solution (see technical bulletin). Except where otherwise directed, or for other use concentrations (see technical bulletin), use the following dilution instructions to achieve the use concentration indicated:

To Achieve Use Concentration of:	Use Dilution Device or Sprayer With a Dilution Ratio of:
50 ppm	1:2 (one part 100 ppm solution to 1 parts water)
20 ppm	1:5 (one part 100 ppm solution to 4 parts water)
5 ppm	1:20 (one part 100 ppm solution to 19 parts water)
0.25 ppm	1:400 (one part 100 ppm solution to 399 parts water)

**Pease reference Master Label Technical Bulletin for Detailed Use Patterns and Dilution Rates.**

### **STORAGE AND DISPOSAL**

DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE AND DISPOSAL. STORE IN COOL, DRY, VENTILATED AREA. STORE BELOW 50C (122F). KEEP PRODUCT OUT OF DIRECT SUNLIGHT. STORE SEPARATELY FROM WATER AND ACIDS. IF PACKAGE RUPTURES AND CONTENTS SPILL, DO NOT PERMIT CONTACT OF CONTENTS WITH ORGANIC MATERIALS (FOR EXAMPLE: CLOTHING OR COMBUSTIBLE MATERIALS) OR ACIDS. PESTICIDE WASTES ARE TOXIC. IMPROPER DISPOSAL OF EXCESS DRY PESTICIDE IS A VIOLATION OF FEDERAL LAW. IF THIS PRODUCT CANNOT BE USED ACCORDING TO LABEL INSTRUCTIONS, CONTACT YOUR STATE PESTICIDE OR ENVIRONMENTAL CONTROL AGENCY, OR THE HAZARDOUS WASTE REPRESENTATIVE AT THE NEAREST EPA REGIONAL OFFICE FOR GUIDANCE. NONREFILLABLE CONTAINER. DO NOT REUSE OR REFILL THIS CONTAINER. OFFER FOR RECYCLING, IF AVAILABLE, OR DISPOSE OF SPENT ENVELOPE IN A SANITARY LANDFILL OR BY INCINERATION, OR IF ALLOWED BY STATE AND LOCAL AUTHORITIES, BY BURNING. IF BURNED, STAY OUT OF SMOKE.

**WARRANTY STATEMENT:** The Company warrants the product to be free from defects in material and workmanship. THE COMPANY MAKES NO WARRANTY THAT THE GOODS SHALL BE MERCHANTABILITY. THE COMPANY MAKES NO WARRANTY, EXPRESSED OR IMPLIED, EXCEPT SUCH AS IS EXPRESSLY SET FORTH HEREIN. The Company shall not be liable for any incidental or consequential damages for any breach of warranty. The Company's liability for any breach of warranty shall be limited to the purchase price of the product.



100

**Just add water...Wait 30 minutes!**

**DISINFECTANT/SANITIZER/VIRUCIDE\*/FUNGICIDE/ALGAEICIDE/SLIMICIDE/DEODORIZER  
[PRODUCES ONE LITER OF 100 PPM CHLORINE DIOXIDE SOLUTION WHEN ACTIVATED]**

When used as directed, this chlorine dioxide-generating product is proven effective as: a disinfectant against *Pseudomonas aeruginosa*, *Staphylococcus aureus*, *Salmonella enterica*, methicillin-resistant *S. aureus* (MRSA), vancomycin-resistant *Enterococcus faecalis*, *Listeria monocytogenes*, and *Candida albicans*; a **fungicide against *Trichophyton mentagrophytes* [interdigitae (athlete's foot)]**, a sanitizer against *E. coli* (and *E. coli* O157:H7), *S. aureus*, *Salmonella typhimurium* (MDRS), *Klebsiella pneumoniae*, and *Listeria monocytogenes*; a **bactericide against *Penicillium digitatum*, *Botrytis* Sp, and *Fusarium solani***; and an algaeicide (*Phormidium boneri*). \*Viruses: Corona virus, Feline Calicivirus, Hepatitis A virus, Human Immunodeficiency virus type 1 (HIV-1), Poliovirus-1, Rotavirus, Influenza-A virus, Rhinovirus type 37, Canine Parvovirus, Adenovirus type 5, Herpes Simplex virus type 2, Vaccinia virus, and Norovirus (feline calici used as testing surrogate); \*kills Pandemic 2009 H1N1 Influenza A virus (formerly called swine flu). See Technical Bulletin (page 3) for ATCC designation numbers of the above-listed organisms.

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER:** DRY INGREDIENTS: CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGE AND CAUSES SKIN BURNS. HARMFUL IF SWALLOWED. WEAR PROTECTIVE EYEWEAR (GOOGLES, FACE SHIELD OR SAFETY GLASSES). WEAR PROTECTIVE GLOVES. IF CONTACT WITH DRY INGREDIENTS OCCURS, WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING AND BEFORE EATING, DRINKING, CHEWING GUM, USING TOBACCO OR USING THE TOILET. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE.

**PHYSICAL OR CHEMICAL HAZARDS**

DRY SODIUM CHLORITE IS INCOMPATIBLE WITH ACIDS, REDUCING AGENTS, COMBUSTIBLE MATERIALS, SULFUR-CONTAINING RUBBER, SOLVENTS AND PAINTS. KEEP ACTIVATED SOLUTION FROM LIGHT AND HEAT. CHLORINE DIOXIDE GAS MAY CONCENTRATE IN OPEN SPACE OF CONTAINER IN WHICH PRODUCT IS ACTIVATED. ALWAYS DILUTE ACTIVATED PRODUCT IN WELL-VENTILATED AREA. ALLOW PRODUCT TO FULLY GENERATE PRIOR TO USE.

**NOTE:** For use in the institutional or commercial applications discussed below and in the accompanying Technical Bulletin. Not for use in households or where young children may be present. Cap is not child-resistant.

**FIRST AID**

**If in Eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**If on Skin or Clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**If Swallowed:** Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**If Inhaled:** Remove victim to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for treatment advice. Get medical attention.

Have the product container or label with you when calling a poison control center, doctor, or going for treatment. For emergency information concerning this product, call the National Pesticides Information Center (NPIC Web site: [www.npic.orst.edu](http://www.npic.orst.edu)).

**Note to Physician:** Probable mucosal damage may contraindicate the use of gastric lavage.

EPA Registration No. 74986-4 EPA Establishment No. 090569-OH-001

**KEEP OUT OF REACH OF CHILDREN DANGER**

(See back panel for other cautions)

**Active Ingredient:**

Sodium Chlorite: .....30.5%  
Other Ingredients: ..... 69.5%  
Total: .....100.0%

Amount of Chlorine Dioxide generated = 0.01%  
Net Weight of contents: ..... 1.52 grams

**Part Number: 850-90005**

**STORAGE AND DISPOSAL:** DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE AND DISPOSAL. STORE IN COOL, DRY, VENTILATED AREA. STORE BELOW 50°C (122°F). KEEP PRODUCT OUT OF DIRECT SUNLIGHT. STORE SEPARATELY FROM WATER AND ACIDS. IF PACKAGE RUPTURES AND CONTENTS SPILL, DO NOT PERMIT CONTACT OF CONTENTS WITH ORGANIC MATERIALS (FOR EXAMPLE: CLOTHING OR COMBUSTIBLE MATERIALS) OR ACIDS. PESTICIDE WASTES ARE TOXIC. IMPROPER DISPOSAL OF EXCESS DRY PESTICIDE IS A VIOLATION OF FEDERAL LAW. IF THIS PRODUCT CANNOT BE USED ACCORDING TO LABEL INSTRUCTIONS, CONTACT YOUR STATE PESTICIDE OR ENVIRONMENTAL CONTROL AGENCY, OR THE HAZARDOUS WASTE REPRESENTATIVE AT THE NEAREST EPA REGIONAL OFFICE FOR GUIDANCE. NONREFILLABLE CONTAINER. DO NOT REUSE OR REFILL THIS CONTAINER. OFFER FOR RECYCLING, IF AVAILABLE, OR DISPOSE OF SPENT ENVELOPE IN A SANITARY LANDFILL OR BY INCINERATION, OR IF ALLOWED BY STATE AND LOCAL AUTHORITIES, BY BURNING. IF BURNED, STAY OUT OF SMOKE.

**Warranty Statement:** The Company warrants the product to be free from defects in material and workmanship. THE COMPANY MAKES NO WARRANTY THAT THE GOODS SHALL BE MERCHANTABLE. THE COMPANY MAKES NO WARRANTY, EXPRESSED OR IMPLIED, EXCEPT SUCH AS IS EXPRESSLY SET FORTH HEREIN. The Company shall not be liable for any incidental or consequential damages for any breach of warranty. The Company's liability for any breach of warranty shall be limited to the purchase price of the product.

When used as directed, on hard, non-porous surfaces (e.g., stainless steel, brass, glass, vinyl, PVC, polypropylene), this product is an effective sanitizer, disinfectant, virucide\*, fungicide, algacide, general-purpose antimicrobial and cleaner for use in a wide range of applications, including but not limited to: hospitals; medical & veterinary facilities; pharmaceutical production facilities; including equipment (e.g., ultracentrifuges); wineries, breweries, and beverage / bottling plants; laboratories and other clinical settings; potable and non-potable water systems and attendant equipment & tubing; restaurants and food processing plants; and greenhouses/horticultural settings. Heavily soiled surfaces must be pre-cleaned prior to treatment. Apply by mop, sponge, or sprayer, ensuring visible wetness for times specified for these applications, or apply through immersion or clean-in-place application. Wear a NIOSH/MHSA-approved respirator appropriate for chlorine dioxide when using a high-pressurized sprayer and under other circumstances detailed in the Technical Bulletin.



**DIRECTIONS FOR USE:** IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH THE LABELING. READ THE ENTIRE LABEL AND USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND USE DIRECTIONS.

1. Fill the CLO2BER 100 container with tap water (1 liter) to generate the chlorine dioxide solution.
2. Wait 30 minutes before use to ensure solution reaches full strength at 100 ppm.
3. Shake gently before use. Direct spout away from face when opening, work in well-ventilated area, and avoid inhaling fumes. Wear protective gloves if hands will come in contact with activated solution during dilution or application. Follow instructions for dilution using dilution tables in label and technical bulletin. Wear protective gloves and wear a NIOSH/MHSA-approved respirator appropriate for chlorine dioxide when using product at full strength.

4. See Technical Bulletin for recommendations regarding dilutions and contact times for specific applications.

**Note:** Verify concentration using Selective Micro® Test Strips. For concentrations above 10ppm, use Selective Micro® Wide Range test strips; for concentrations of 10ppm or less, use Selective Micro® Low Range test strips.

5. Activate prior to expiration date stamped on pouch. If solution in container will not be used up within 48 hours of activation, transfer unused solution to a dark, oxidation-resistant closed or sealed container; store dilutions of solution in a sealed container of the same type (see Tech Bulletin for container details). Store original or diluted solutions in cool place out of direct sunlight (do not store in refrigerator dedicated to food storage). Record activation date and concentration on stick-on label shipped with pouches, and affix to pouch or storage container.

**USE THE FOLLOWING GENERAL DILUTION INSTRUCTIONS:**



General Dilution Instructions: All dilutions begin with a solution at a nominal concentration of 100 ppm, except when the product is activated directly to strength of stock solution (see technical bulletin). Except where otherwise directed, or for other use concentrations (see technical bulletin), use the following dilution instructions to achieve the use concentration indicated.

To Achieve Use Concentration of:	Use Dilution Device or Sprayer With a Dilution Ratio of:
100 ppm	Do not dilute
50 ppm	1:2 (one part 100 ppm solution to 1 parts water)
20 ppm	1:5 (one part 100 ppm solution to 4 parts water)
5 ppm	1:20 (one part 100 ppm solution to 19 parts water)
0.25 ppm	1:400 (one part 100 ppm solution to 399 parts water)

Sanitizer for Hard, Non-Porous, Food-Contact Surfaces; for Hard, Non-Porous, Non-Food-Contact Surfaces, Disinfectant or Virucide\* For Hard, Non-Porous Surfaces, Disinfectant for Clean-in-Place Applications for Potable Water Systems, Antimicrobial and General Cleaning Applications for Potable Water Systems, Antimicrobial Applications for Non-Potable Water Systems in Horticultural settings, General disinfectant, sanitizer, algacide and fungicide for horticultural and greenhouse applications, Fruit and Vegetable Wash to Extend Freshness and Shelf-Life, Antimicrobial Applications to control the buildup of microbes in process waters for Fruit and vegetable rinse and associated tanks, flumes, and lines, Antimicrobial Treatment for Poultry Drinking Water, Sanitizing final rinse of pre-cleaned or new returnable or non-returnable containers, Antimicrobial and General Cleaning uses for non-potable water applications involving recirculating Water systems (e.g., cooling towers, paper mills, and decorative or ornamental fountains).

*Please reference Master Label Technical Bulletin for Detailed Use Patterns and Dilution Rates.*

# SelectroFresh™ 2L500 FOOD PROCESSING

**SANITIZER/BACTERICIDE/FUNGICIDE/DISINFECTANT/VIRUCIDE/DEODORIZER**  
**[PRODUCES TWO LITERS OF 500 PPM CHLORINE DIOXIDE SOLUTION WHEN ACTIVATED]**

When used as directed, this chlorine dioxide-generating product is proven effective as: a **sanitizer** against E. coli (and E. coli O157:H7), S. aureus, Salmonella typhimurium (MDRS), Klebsiella pneumonia, and Listeria monocytogenes; a **bactericide** against Erwinia chrysanthemi and against Penicillium digitatum, Botrytis Sp, and Fusarium solani, a **virucide** against Norovirus (feline calici used as testing surrogate).

See Technical Bulletin (page 3) for ATCC designation numbers of the above-listed organisms.

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**DANGER:** DRY INGREDIENTS: CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGE AND CAUSES SKIN BURNS. HARMFUL IF SWALLOWED. WEAR PROTECTIVE EYEWEAR (GOGGLES, FACE SHIELD OR SAFETY GLASSES) WHEN HANDLING DRY INGREDIENTS. WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING AND BEFORE EATING, DRINKING, CHEWING GUM, USING TOBACCO OR USING THE TOILET. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE. ACTIVATED SOLUTION: CAUSES MODERATE EYE IRRITATION. AVOID CONTACT WITH EYES, SKIN, OR CLOTHING. AVOID BREATHING VAPORS. WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING AND BEFORE EATING, DRINKING, CHEWING GUM OR USING TOBACCO.

### PHYSICAL OR CHEMICAL HAZARDS

DRY SODIUM CHLORITE IS INCOMPATIBLE WITH ACIDS, REDUCING AGENTS, COMBUSTIBLE MATERIALS, SULFUR-CONTAINING RUBBER, SOLVENTS AND PAINTS. KEEP ACTIVATED SOLUTION FROM LIGHT AND HEAT. CHLORINE DIOXIDE GAS MAY CONCENTRATE IN OPEN SPACE OF POUCH. ALWAYS OPEN ACTIVATED POUCH, AND DILUTE ACTIVATED SOLUTION, IN WELL-VENTILATED AREA. NOTE: For use in the institutional or commercial applications discussed below and in the accompanying Technical Bulletin. Not for use in households or where young children may be present. Cap is not child-resistant.

### STORAGE AND DISPOSAL

DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE AND DISPOSAL. STORE IN COOL, DRY, VENTILATED AREA. STORE BELOW 50° C (122° F). KEEP PRODUCT OUT OF DIRECT SUNLIGHT. STORE SEPARATELY FROM WATER AND ACIDS. IF PACKAGE RUPTURES AND CONTENTS SPILL, DO NOT PERMIT CONTACT OF CONTENTS WITH ORGANIC MATERIALS (FOR EXAMPLE: CLOTHING OR COMBUSTIBLE MATERIALS) OR ACIDS. PESTICIDE WASTES ARE TOXIC. IMPROPER DISPOSAL OF EXCESS DRY PESTICIDE IS A VIOLATION OF FEDERAL LAW. IF THIS PRODUCT CANNOT BE USED ACCORDING TO LABEL INSTRUCTIONS, CONTACT YOUR STATE PESTICIDE OR ENVIRONMENTAL CONTROL AGENCY, OR THE HAZARDOUS WASTE REPRESENTATIVE AT THE NEAREST EPA REGIONAL OFFICE FOR GUIDANCE. NONREFILLABLE CONTAINER. DO NOT REUSE OR REFILL THIS CONTAINER. COMPLETELY EMPTY ACTIVATED SOLUTION IN POUCH INTO APPLICATION EQUIPMENT. OFFER FOR RECYCLING, IF AVAILABLE, OR DISPOSE OF EMPTY POUCH IN A SANITARY LANDFILL OR BY INCINERATION, OR, IF ALLOWED BY STATE AND LOCAL AUTHORITIES, BY BURNING. IF BURNED, STAY OUT OF SMOKE.

**WARRANTY STATEMENT** The Company warrants the product to be free from defects in material and workmanship. THE COMPANY MAKES NO WARRANTY THAT THE GOODS SHALL BE MERCHANTABLE. THE COMPANY MAKES NO WARRANTY, EXPRESSED OR IMPLIED, EXCEPT SUCH AS IS EXPRESSLY SET FORTH HEREIN. The Company shall not be liable for any incidental or consequential damages for any breach of warranty. The Company's liability for any breach of warranty shall be limited to the purchase price of the product.

## FIRST AID

**If in Eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**If on Skin or Clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**If Swallowed:** Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**If Inhaled:** Remove victim to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for treatment advice. Get medical attention.

Have the product container or label with you when calling a poison control center, doctor, or going for treatment. For emergency information concerning this product, call the National Pesticides Information Center (NPIC) at 1-800-858-7378 seven days a week, 6:30 am to 4:30 pm Pacific Time (NPIC Web site: [www.npic.orst.edu](http://www.npic.orst.edu)).

**Note to Physician:** Probable mucosal damage may contraindicate the use of gastric lavage.

EPA Registration No. 74986-4

EPA Establishment No. 090569-OH-001

## KEEP OUT OF REACH OF CHILDREN DANGER

### Active Ingredient:

Sodium Chlorite: ..... 30.5%  
 Other Ingredients: ..... 69.5%  
 Total: ..... 100.0%

Amount of Chlorine Dioxide generated = 0.05%  
 Net Weight of contents ..... 0.44 ounces (12.34 grams)



### DIRECTIONS FOR USE:

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH THE LABELING. READ THE ENTIRE LABEL AND USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND USE DIRECTIONS.

#### FOR POUCH SIZE OF .44 OUNCES (12.34 GRAMS) USE:

1. Fill the pouch with tap water (2 liters) to generate the chlorine dioxide solution.
2. Wait at least 2 hours before use to ensure the solution reaches full strength to reach 500 PPM.
3. Shake gently before use. Direct spout away from face when opening, work in well-ventilated area, and avoid inhaling fumes. Wear protective gloves if hands will come in contact with activated solution during dilution or application.
4. See Technical Bulletin for recommendations regarding dilutions and contact times for specific applications. Before use, verify concentration using Selective Micro® Chlorine Dioxide Test Strips to ensure appropriate concentration (see Technical Bulletin for directions if Test Strips indicate lower-than-desired concentration).
5. Activate prior to expiration date stamped on pouch. If solution in pouch will not be used up within 48 hours of activation, transfer unused solution to a dark, oxidation-resistant closed or sealed container; store dilutions of solution in a sealed container of the same type (see Tech Bulletin for container details). Store original or diluted solutions in cool place out of direct sunlight (do not store in refrigerator dedicated to food storage). Record activation date and concentration on stick-on label shipped with pouches, and affix to pouch or storage container. Test solution and/or subsequent dilutions using colorimetric test strips to ensure accurate ppm concentration before use.



#### FOR POUCH SIZE OF .44 OUNCES (12.34 GRAMS) USE THE FOLLOWING GENERAL DILUTIONS AND TABLE:

When used as directed, on hard, non-porous surfaces (e.g., stainless steel, brass, glass, vinyl, PVC, polypropylene), this product is an effective sanitizer, virucide, fungicide, algacide, general-purpose antimicrobial and cleaner for use in a wide range of applications. Heavily soiled surfaces must be pre-cleaned prior to treatment. Apply by mop, sponge, or sprayer, ensuring visible wetness for times specified for these applications, or apply through immersion or clean-in-place application. Wear a NIOSH/MHSA-approved respirator appropriate for chlorine dioxide when using a high-pressure sprayer and under other circumstances detailed in the Technical Bulletin.

#### GENERAL DILUTION INSTRUCTIONS:

All dilutions begin with a stock solution at a nominal concentration of 500 ppm, except when the product is activated directly to the application concentration (see technical bulletin). Except where otherwise directed, or for other use concentrations (see technical bulletin), use the following dilution instructions to achieve the use concentration indicated:

To Achieve Use Concentration of:	Use Dilution Device or Sprayer With a Dilution Ratio of:
100 ppm	1:5 (one part 500 ppm solution to 4 parts water)
50 ppm	1:10 (one part 500 ppm solution to 9 parts water)
20 ppm	1:25 (one part 500 ppm solution to 24 parts water)
5 ppm	1:100 (one part 500 ppm solution to 99 parts water)
0.25 ppm	1:2,000 (one part 500 ppm solution to 1,999 parts water)

#### SANITIZER FOR HARD, NON-POROUS, FOOD-CONTACT SURFACES.

Effective food contact surface sanitizer at 5 ppm against *E. coli* and *E. coli* O157:H7, *Salmonella typhimurium* (MDRS), and *Staphylococcus aureus* with an exposure time of 1 minute. Product may be used on previously cleaned food preparation surfaces; fountain drink and beverage dispensers; glassware, plates and eating utensils; food processing equipment, including beer processing equipment and lines, and food conveyor belts. Dilute to 5 ppm as table above specifies. See Technical Bulletin for alternative dilution instructions and application specifics.

#### SANITIZER FOR HARD, NON-POROUS, NON-FOOD-CONTACT SURFACES.

Effective non-food contact surface sanitizer at 20 ppm against *Staphylococcus aureus*, *Klebsiella pneumoniae* and *Listeria monocytogenes* with an exposure time of 5 minutes. Product may be used on non-food contact surfaces, including floors, walls, furnishings, and equipment. Dilute to 20 ppm as table above specifies. See Technical Bulletin for alternative dilution instructions and application specifics.

#### FRUIT AND VEGETABLE WASH TO EXTEND FRESHNESS AND SHELF-LIFE.

This product may be used at 5 ppm for 1 minute to reduce spoilage microorganisms on raw agricultural commodities (RACs) in food processing facilities. Spray or dip RACs, and follow with a potable water rinse or by canning, blanching, or cooking. Dilute to 5 ppm as table above specifies. See Technical Bulletin for detailed directions and other dilution and application specifics.

#### TO SANITIZE OR CLEAN SHELL EGGS INTENDED FOR FOOD OR PRODUCTS.

Prepare solution containing 200ppm or less working solution of chlorine dioxide. Eggs may be broken for food products without a prior potable water rinse. Eggs must be reasonably dry before casing or breaking. See Technical Bulletin for detailed directions and other dilution and application specifics.

#### GENERAL DISINFECTANT, SANITIZER, ALGAEICIDE, & BACTERICIDE FOR HORTICULTURAL AND GREENHOUSE APPLICATIONS:

For horticultural applications, this product may be used to disinfect (100 ppm/10 minutes or 50 ppm/20 minutes) and sanitize (20 ppm/5 minutes) hard, non-porous surfaces; to treat, control, and prevent **bacteria** (5ppm/1 hour) (*Penicillium digitatum*, *Botrytis* Sp, *Fusarium solani* & *oxysporum* f. sp. *Basilicum* (Fob), and *Pythium irregulare* & *aphanidermatum*), bacteria (*Erwinia chrysanthemi*), algae (*Phormidium boneri*), attendant slimes, rusts, leaf spot and mildews; and to remove slimes (50 ppm/12 hours-overnight) & inhibit reemergence (0.25 ppm/continuous treatment) in irrigation and other non-potable water systems. Concentrations and contact times are application-specific; dilute to use concentrations as table above specifies. See Technical Bulletin for detailed directions and other dilution and application specifics.

#### DISINFECTANT OR VIRUCIDE FOR HARD, NON-POROUS SURFACES:

Product may be used at 100 ppm with an exposure time of 10 minutes to disinfect hard surfaces in medical facilities or veterinary clinics that may be contaminated with Feline Calicivirus. This product may be used as a disinfectant or virucide on general environmental surfaces. Dilute to 100 ppm as table above specifies. See Technical Bulletin for detailed directions and other dilution and application specifics.

# Selectroicide®

## -2L500-

**Technical Bulletin**  
**Disinfectant/Sanitizer/Virucide\***  
**Fungicide<sup>^</sup>/Algaecide/Slimicide/Bactericide/Deodorizer**  
 EPA Registration No. 74986-4      EPA Establishment No. 090569-OH-001

**Activate *Selectroicide*® 2L500 according to “Directions for Use” on pouch [container] label. One pouch [container], activated as directed, contains two (2) liters of chlorine dioxide solution at a concentration of 500 ppm. Shake pouch [container] gently before use, and prepare diluted solutions using the table below.**  
*[Room Temperature was effectiveness temperature for each concentration claim]*

**Dilution Instructions For: *Selectroicide*® 2L500**

TO PREPARE A FINAL SOLUTION OF THIS CONCENTRATION	DO ANY ONE OF THE FOLLOWING:					
	(1)	(2)	(3)	(4)		
	Add One (1) Part Activated Solution to This Many Parts Water	Use Contents of an Activated Pouch [Container] of with a Dilution Device set at:	Add <b>Entire Contents</b> (2 liters) of the Activated Pouch [Container] to This Much Water:	Add The Indicated Volume of Activated <i>Selectroicide</i> ® 2L500 Solution To Each Liter, Gallon, or Quart of Water:		
			1 Liter	1 Gallon	1 Quart	
0.25 ppm	1,999	1:2,000	1,050 gallons (3,998 liters)	0.5 ml	.07 fl oz	.02 fl oz
5 ppm	99	1:100	52 gallons (198 liters)	11 ml	1.3 fl oz	0.4 fl oz
20 ppm	24	1:25	12.5 gallons (48 liters)	42 ml	5.4 fl oz	1.4 fl oz
50 ppm	9	1:10	4.75 gallons (18 liters)	112 ml	14.3 fl oz	3.6 fl oz
100 ppm	4	1:5	2.1 gallons (8 liters)	250 ml	32.0 fl oz	8.0 fl oz
800 ppm	0.75	1.25:1	.35 gallons (1.25 liters)	NA	NA	NA
1000 ppm	0.5	2:1	0.15 gallons (0.5 liters)	NA	NA	NA

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Selective Micro Technologies    [www.selectivemicro.com](http://www.selectivemicro.com)  
 6200 Avery Rd., Suite A Dublin, OH 43016 phone: 855-256-8299 fax: 614-467-3559  
 Technical Bulletin: 2L500 425-12445-011 (Revised 4-20)

**Dilution Instructions For: [*Selectroicide® Pouch 200MG*] [*CLO2BBER 100*]**

To Achieve Use Concentration of:	Use Dilution Device or Sprayer With a Dilution Ratio of:
100 ppm	1:1 (no dilution of product)
50 ppm	1:2 (one part 100 ppm solution to 1 parts water)
20 ppm	1:5 (one part 100 ppm solution to 4 parts water)
5 ppm	1:20 (one part 100 ppm solution to 19 parts water)
0.25 ppm	1:400 (one part 100 ppm solution to 399 parts water)

**Dilution Instructions For: [*Selectroicide®Pouch 100MG*]**

To Achieve Use Concentration of:	Use Dilution Device or Sprayer With a Dilution Ratio of:
100 ppm	Add 1L of water
50 ppm	Add 2L of water
20 ppm	1:2.5 (one part 50 ppm solution to 2.5 parts water)
5 ppm	1:10 (one part 50 ppm solution to 9 parts water)
0.25 ppm	1:200 (one part 50 ppm solution to 199 parts water)

**Check concentration of solution using *Selective Micro® Chlorine Dioxide Test Strips*.**

**(See box on following page for instructions if check indicates concentration lower than desired)**

**Record activation date and concentration on stick-on label and affix to storage container.**

**Storage: Store unused solution according to “Directions for Use” on pouch [container] label.**

**Transfer unused solution from pouch [container] to approved storage container within 24 hours of activation.**

**After use, dispose of pouches [container] according to disposal instructions on pouch [container] label.**

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**DURING USE (DILUTING, APPLYING, OR WORKING WITH ACTIVATED PRODUCT):**

1. Always work in well-ventilated area and avoid inhaling fumes of activated solution.
2. Wear protective gloves if hands will come in contact with activated solution.
3. Respiratory protection is not required under the limited exposure conditions of most normal use patterns. However, wear a NIOSH/MSHA-approved respirator under the following conditions:
  - a. when applying activated solution with a high-pressure sprayer
  - b. when working with the activated solution for an extended period of time in a closed facility or in a poorly-ventilated area
  - c. when normal work shift duties entail uninterrupted periods of applying the activated solution with mop, sponge, or sprayer
  - d. if OSHA inhalation exposure limits are reached or exceeded (see MSDS).
4. Do not use product in a manner inconsistent with the label.

**IF TEST STRIPS INDICATE CONCENTRATION (PPM) LOWER THAN DESIRED:**

1. Check expiration date on *Test Strips* container. If expired, then recheck using a fresh *Test Strip* from a container that has not reached its expiration date.
2. If the original container has not expired OR if the recheck indicates a lower-than-desired concentration, THEN DO ONE OF THE FOLLOWING:
  - 2a. If the application solution was prepared directly to the end-concentration (not diluted from a higher concentration), discard the solution and activate a fresh (unused) *Selectrocide*<sup>®</sup> 2L500. Recheck concentration after waiting the prescribed time to activation.

OR
  - 2b. If the application solution was prepared by diluting a solution of higher concentration, add small amounts of the higher-concentration solution to the application solution—about 10% of the volume of the application solution at a time—until the *Selective Micro*<sup>®</sup> Chlorine Dioxide *Test Strip* indicates the desired concentration. Stir or mix the solution gently after each addition. Use a fresh (unused) *Test Strip* for each test.

**RECOMMENDED SPECIFICATIONS FOR CONTAINERS  
USED WITH *SELECTIVE MICRO* PRODUCTS****FOR USE IN GENERATING OR STORING ACTIVATED SOLUTIONS**

- The container should be—or be comparable to—a UN-approved, liquid-resealable containment incorporating a gasket-sealing surface and locking mechanism.
- Construction should be of dark or opaque/UV-blocking (preferred) oxidation-resistant plastic or glass. Some materials recommended include:
  - High Density Polyethylene (HDPE)
  - Polypropylene (PP)
  - Polyethylene Terephthalate (PET)(PETE)
  - Polyvinyl Chloride (PVC)
  - Polycarbonate (PC)
  - Glass (UV-blocking preferred)
  - Gasket materials; silicone, viton or EPDM

Users without containers comparable to the above may contact Selective Micro Technologies for recommendations or to purchase containers for their applications.

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ATCC (OR OTHER) DESIGNATIONS FOR PATHOGENIC ORGANISMS  
LISTED ON THE LABELS OF REGISTERED SELECTROCIDIC PRODUCTS

—Always Consult Label to Verify Concentrations and Contact Times—

**Bacteria (disinfection claims) 100 ppm/10-minute contact time for clean –in-place applications**

<i>Pseudomonas aeruginosa</i>	ATCC 15442
<i>Staphylococcus aureus</i>	ATCC 6538
<i>Salmonella enterica (choleraesuis)</i>	ATCC 10708
Methicillin-resistant <i>Staphylococcus aureus</i> (MRSA)	ATCC 33592
Vancomycin-resistant <i>Enterococcus faecalis</i> (VRE)	ATCC 51299
<i>Candida albicans</i>	ATCC 10231
<i>Trichophyton mentagrophytes</i> <sup>^</sup>	ATCC 9533
<i>Listeria monocytogenes</i>	ATCC 19111

**\*Viruses (virucidal claims at 100 ppm/10-minute contact time)**

<i>Coronavirus</i>	ATCC VR-740, Strain 229E
<i>Feline Calicivirus</i>	ATCC VR-782, Strain F-9
<i>Hepatitis A virus</i>	Strain HM-175
<i>Human Immunodeficiency Virus type 1 (HIV-1)</i>	Strain HTLV-III <sub>B</sub>
<i>Poliovirus-1</i>	ATCC VR-1000, Strain Brunhilde
<i>Rotavirus</i>	Strain WA
<i>Influenza-A virus</i>	ATCC VR-544, Strain Hong Kong
<i>Rhinovirus type 37</i>	ATCC VR-1147, Strain 151-1
<i>Canine Parvovirus</i>	ATCC VR-2017, Strain Cornell
<i>Adenovirus type 5</i>	ATCC VR-5, Strain Adenoid 75
<i>Herpes Simplex virus type 2</i>	ATCC VR-734, Strain G
<i>Vaccinia virus</i>	ATCC VR-119, Strain WR
<i>Norovirus (feline calicivirus surrogate)</i>	ATCC VR-782, Strain F-9
Pandemic 2009 H1N1 Influenza A virus	Reference <i>Influenza-A virus</i> (above)

**Bacteria (sanitizer claim for hard, non-porous food contact surfaces) 5 ppm/1-minute contact time**

<i>Staphylococcus aureus</i>	ATCC 6538
<i>Escherichia Coli</i>	ATCC 11229
<i>Escherichia coli O157:H7</i>	ATCC 43895
<i>Salmonella typhimurium</i> (MDRS)	CI 01005 (University of Maryland)

**Bacteria (sanitizer claim for hard, non-porous non-food contact surfaces) 20 ppm/5-minute contact time**

<i>Staphylococcus aureus</i>	ATCC 6538
<i>Klebsiella pneumonia</i>	ATCC 4352
<i>Listeria monocytogenes</i>	ATCC 1911

**Bacteria (disinfection claims) 800 ppm/10-minute contact time**

<i>Carbapenem-resistant Enterobacteriaceae: Klebsiella pneumoniae (CRKP)</i>	ATCC BAA-1705
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## GENERAL USE, PUBLIC HEALTH APPLICATIONS

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### A. SANITIZER

#### FOR HARD, NON-POROUS FOOD CONTACT SURFACES

**As a sanitizer for stainless steel and other hard, non-porous food contact surfaces such as tanks, transfer lines and other food processing equipment in food processing plants such as poultry, fish & meat and in restaurants, dairies, beverage and bottling plants, breweries, wineries and commissaries:**

1. Activate *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBER* 100] [*Selectrocide*<sup>®</sup>Pouch 100MG] according to "Directions for Use" on pouch [container] label.
2. Remove all gross food particles and soil prior to sanitizing using a pre-flush, pre-scrape or pre-soak treatment.
3. Clean tank, line or surface thoroughly using a suitable detergent and rinse with clean, potable water before sanitizing.
4. Prepare a 5 ppm solution in accordance with instructions above OR use the undiluted contents of the activated *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] pouch with a 1:100 dilution device (one part activated solution to 99 parts water). [Prepare a 5 ppm solution in accordance with instructions above OR use the undiluted contents of the activated [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBER* 100] pouch with a 1:20 dilution device (one part activated solution to 19 parts water).] [Prepare a 5 ppm solution in accordance with instructions above OR use the undiluted contents of the activated [*Selectrocide*<sup>®</sup>Pouch 100MG] pouch with a 1:10 dilution device (one part activated solution to 9 parts water).]
5. To apply: spray, mop, sponge or swab surfaces **OR** fill, flush, immerse or circulate in tanks, lines, and equipment, ensuring the target surfaces remain visibly wet for at least one minute. When applying these solutions using a high-pressure sprayer, wear a NIOSH/MSHA-approved respirator appropriate for chlorine dioxide.
6. After sanitizing, allow surfaces or equipment to air dry. Do not reuse solution. Do not rinse sanitized surface.
7. Dispose of pouch [container] according to instructions on pouch [container] label.

#### FOR HARD, NON-POROUS, NON-FOOD CONTACT SURFACES

**As a sanitizer for non-porous, non-food contact surfaces and equipment such as sealed concrete and sealed, finished wood, backsplashes, counter tops, stainless steel or hard-surface equipment, glazed tile floors, walls, and ceilings:**

1. Activate *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBER* 100] [*Selectrocide*<sup>®</sup>Pouch 100MG] according to "Directions for Use" on pouch [container] label.
2. Clean all surfaces thoroughly with a suitable detergent and rinse with water prior to sanitizing.
3. Prepare a 20 ppm solution in accordance with instructions above **OR** use the undiluted contents of the activated [[*Selectrocide*<sup>®</sup> 2L500] [*SelectroFresh 2L500 Food Processing*]] [[*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBER* 100] [*Selectrocide*<sup>®</sup>Pouch 100MG] pouch with a [1:25] [1:5] [1:3.5] dilution device (one part activated solution to [24] [4] [2.5] parts water).

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4. To apply: spray, mop or sponge the 20 ppm solution onto the surfaces to be sanitized, ensuring the target surfaces remain visibly wet for at least five minutes. When applying these solutions using a high-pressure sprayer, wear a NIOSH/MSHA-approved respirator appropriate for chlorine dioxide.
  5. After sanitizing, allow surfaces or equipment to air dry. Do not reuse solution. Do not rinse sanitized surfaces.
  6. Dispose of pouch [container] according to instructions on pouch [container] label.
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## B. DISINFECTANT

**To disinfect stainless steel and other hard, non-porous surfaces such as tanks, transfer lines and other food processing equipment in food processing plants such as poultry, fish & meat and in restaurants, dairies, beverage and bottling plants, breweries, wineries and commissaries and to disinfect walls, floors and ceilings**

1. Activate *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBER 100*] [*Selectrocide*<sup>®</sup>Pouch 100MG] according to "Directions for Use" on pouch [container] label.
2. Remove all gross food particles and soil prior to disinfecting using a pre-flush, pre-scrape or pre-soak treatment.
3. Clean tank, line or surface thoroughly using a suitable detergent and rinse with clean, potable water before disinfecting.
4. Prepare a 100 ppm solution in accordance with instructions above **OR** use the undiluted contents of the activated *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] pouch [container] with a 1:5 dilution device (one part activated solution to four parts water). [Prepare a 100 ppm solution in accordance with the instructions above **OR** use the undiluted contents of the activated [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBER 100*].] [Prepare a 100 ppm solution in accordance with instructions above by adding 1 liter of water to the [*Selectrocide*<sup>®</sup>Pouch 100MG.]
5. To apply: spray, mop, sponge or swab surfaces **OR** fill, flush, immerse or circulate in tanks, lines, and equipment, ensuring the target surfaces remain visibly wet for at least ten (10) minutes. When applying these solutions using a high-pressure sprayer, wear a NIOSH/MSHA-approved respirator appropriate for chlorine dioxide.
6. After disinfecting allow surfaces or equipment to air dry. Do not reuse solution. Do not rinse disinfected surfaces.
7. Dispose of pouch [container] according to instructions on pouch [container] label.

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## C. Gram Negative Bactericide Against carbapenem-resistant Enterobacteriaceae: *Klebsiella pneumoniae* (CRKP)

**To disinfect stainless steel and other hard, no-porous surfaces such as bedrails, door handles and to disinfect walls, floors and ceilings**

1. Activate *Selectrocide*<sup>®</sup>2L500 according to "Directions for Use" on pouch [container] label.
  2. Remove all organic particles and soil prior to disinfecting
  3. Prepare an 800 ppm solution in accordance with instructions above for the activated *Selectrocide*<sup>®</sup>2L500.
  4. To apply: spray surfaces until visibly wet, ensuring the target surfaces remain visibly wet for at least ten (10) minutes.  
When applying these solutions using a high-pressure sprayer, wear a NIOSH/MSHA-approved respirator appropriate for chlorine dioxide.
  5. After disinfecting allow surfaces or equipment to air dry or wipe with a clean dry cloth or wipe. Do not reuse solution.  
Do not rinse disinfected surfaces.
  6. Dispose of pouch [container] according to instructions on pouch [container] label.
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## DISINFECTANT USES IN MEDICAL AND DENTAL OFFICES, LABORATORIES, HOSPITALS, CLINICS, MORGUES AND INSTITUTIONS

**This product is not to be used as a terminal sterilant/high-level disinfectant on any surface or instrument that**

- (1) is introduced directly into the human body, either into or in contact with the blood stream or normally sterile areas of the body or**
- (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to pre-clean or decontaminate critical or semi-critical medical devices prior to sterilization or high-level disinfection.**

### **A. To disinfect non-porous, hard surfaces such as stainless steel or hard-surface equipment, glazed tile floors, walls, ceilings, stainless steel cold rooms and walk-in incubators:**

1. Activate *Selectroicide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] according to “Directions for Use” on pouch label. [Activate [*Selectroicide*<sup>®</sup> Pouch 200MG] [*CLO2BBER 100*] [*Selectroicide*<sup>®</sup>Pouch 100MG] according to “Directions for Use” on pouch label to prepare a 100 ppm solution in accordance with instructions.]
2. Clean all surfaces thoroughly with a suitable detergent and rinse with water prior to disinfection.
3. Prepare a 100 ppm solution in accordance with instructions above **OR** use the undiluted contents of the activated *Selectroicide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] pouch [container] with a 1:5 dilution device (one part activated solution to four parts water). [Prepare a 100 ppm solution in accordance with the instructions above **OR** use the undiluted contents of the activated [*Selectroicide*<sup>®</sup> Pouch 200MG] [*CLO2BBER 100*].] [Prepare a 100 ppm solution in accordance with instructions above by adding 1 liter of water to the [*Selectroicide*<sup>®</sup>Pouch 100MG].]
4. Spray, mop or sponge the 100 ppm solution onto surfaces to be disinfected. All surfaces must remain visibly wet for at least ten (10) minutes. When applying these solutions using a high-pressure sprayer, wear a NIOSH/MSHA-approved respirator appropriate for chlorine dioxide.
5. After disinfecting, allow surfaces or equipment to air dry. Do not reuse solution. Do not rinse disinfected surfaces.
6. Dispose of pouch [container] according to instructions on pouch [container] label.

### **B. To disinfect equipment tops, bench tops, biological hoods, incubators, stainless steel equipment and instruments:**

1. Activate *Selectroicide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] according to “Directions for Use” on pouch label. [Activate [*Selectroicide*<sup>®</sup> Pouch 200MG] [*CLO2BBER 100*] [*Selectroicide*<sup>®</sup>Pouch 100MG] according to “Directions for Use” on pouch [container] label to prepare a 100 ppm solution in accordance with instructions.]
2. Prepare a 100 ppm solution in accordance with instructions above **OR** use the undiluted contents of the activated *Selectroicide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] pouch [container] with a 1:5 dilution device (one part activated solution to four parts water). [Prepare a 100 ppm solution in accordance with the instructions above **OR** use the undiluted contents of the activated [*Selectroicide*<sup>®</sup> Pouch 200MG] [*CLO2BBER 100*].] [Prepare a 100 ppm solution in accordance with instructions above by adding 1 liter of water to the *Selectroicide*<sup>®</sup>Pouch 100MG.]
2. Spray, mop or sponge the 100 ppm solution onto surfaces to be disinfected. All surfaces must remain visibly wet for at least ten (10) minutes. When applying these solutions using a high-pressure sprayer, wear a NIOSH/MSHA-approved respirator appropriate for chlorine dioxide.
3. After disinfecting, allow surfaces or equipment to air dry. Do not reuse solution. Do not rinse disinfected surfaces.
4. Dispose of pouch [container] according to instructions on pouch [container] label.

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### **C. To disinfect commercial animal confinement facilities such as poultry houses, swine pens, calf barns and kennels:**

1. Activate *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] according to “Directions for Use” on pouch label. [Activate [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBER* 100] [*Selectrocide*<sup>®</sup>Pouch 100MG] according to “Directions for Use” on pouch [container] label to prepare a 100 ppm solution in accordance with instructions.]
2. Remove all litter and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other structures occupied or traversed by animals.
3. Empty all troughs, racks and other feeding and watering appliances.
4. Prepare a 100 ppm solution in accordance with instructions above **OR** use the undiluted contents of the activated *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] pouch [container] with a 1:5 dilution device (one part activated solution to four parts water). [Prepare a 100 ppm solution in accordance with the instructions above **OR** use the undiluted contents of the activated [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBER* 100].] [Prepare a 100 ppm solution in accordance with instructions above by adding 1 liter of water to the *Selectrocide*<sup>®</sup>Pouch 100MG.]

#### **FOR GENERAL APPLICATION WITH SPRAYER:**

5. With soap or detergent, thoroughly clean all surfaces and rinse with water.
6. Using a commercial sprayer, saturate all surfaces with the solution maintaining visible wetness for a period of at least ten (10) minutes. When applying these solutions using a high-pressure sprayer, wear a NIOSH/MSHA-approved respirator appropriate for chlorine dioxide.
7. After treatment, ventilate buildings, coops or other enclosed spaces before reentering. Do not house poultry or employ equipment until treatment has been absorbed, set, or dried.

#### **AS A DISINFECTING SOAK:**

5. With soap or detergent, thoroughly clean halters, ropes or other types of equipment used in handling and restraining animals and forks, shovels and scrapers used in removing litter and manure. Rinse with water.
6. Fill container or vat with 100 ppm solution, and immerse items for a period of at least ten (10) minutes.
7. Discard solution in sanitary drain or as ordinary non-hazardous waste. Do not reuse solution.
8. Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains and waterers with soap or detergent and rinse with potable water before reuse.
9. Dispose of pouch [container] according to instructions on pouch [container] label.

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### **D. For application in poultry operations:**

#### **DISINFECTION TREATMENT OF EGG ROOM (NOT FOR USE IN CALIFORNIA):**

1. Activate *Selectrocide*<sup>®</sup> 2L500 [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBER* 100] [*Selectrocide*<sup>®</sup>Pouch 100MG] according to “Directions for Use” on pouch [container] label.
2. Prepare a 20 ppm solution in accordance with instructions above **OR** use the undiluted contents of the activated [*Selectrocide*<sup>®</sup> 2L500] [[*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBER* 100]] [*Selectrocide*<sup>®</sup>Pouch 100MG] pouch with a [1:25] [1:5] [1:3.5] dilution device (one part activated solution to [24] [4] [2.5] parts water).
3. Spray solution in a high-pressure sprayer as a prewash to remove gross filth or heavy soil. When applying the solution using a high-pressure sprayer, wear a NIOSH/MSHA-approved respirator appropriate for use with chlorine dioxide.
4. Prepare a 100 ppm solution in accordance with instructions above **OR** use the undiluted contents of the activated *Selectrocide*<sup>®</sup> 2L500 pouch [container] with a 1:5 dilution device (one part activated solution to 4 parts water). [Prepare a 100 ppm solution in accordance with the

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instructions above OR use the undiluted contents of the activated [*Selectrocide*<sup>®</sup> Pouch 200MG] [CLO2BBER 100].] [Prepare a 100 ppm solution in accordance with instructions above by adding 1 liter of water to the Selectrocide<sup>®</sup>Pouch 100MG.]

5. Spray hard non-porous surfaces within the entire area, being sure to cover walls, ceiling, floors, work tables and benches. All hard, non-porous surfaces should be wet for five (5) minutes. Allow surfaces to dry for at least 1 hour (or overnight, if possible) before resuming operations. Vacate the premises during this treatment. For spraying applications, wear a NIOSH/MSHA-approved respirator appropriate for use with chlorine dioxide. Washing and spraying operations should be conducted once a week, or more frequently in cases of heavy contamination during operations.
6. Allow treated surfaces to air dry and then ventilate the area. Do not rinse treated surfaces. Do not reuse solution.
7. Prepare and place a shoe bath at the entrance to the egg room for use upon entry. Also, prepare and place a hand/glove dip or rinse at the entrance to the egg room for use upon entering and exiting the room. For instruction in the preparation of shoe baths and hand/glove rinses, please refer to the "Use In Glove Dips And Shoe Baths" section of this document. Replace both the shoe bath and the hand/glove dip daily or when solution is soiled. Keep doors to the room closed at all times to prevent bacterial contamination.
8. Dispose of package(s) and spent envelope(s) according to instructions on package label.

#### **DISINFECTION TREATMENT OF HATCHING ROOM (NOT FOR USE IN CALIFORNIA) ::**

##### Pre-Treatment

1. Separate chicks from Hatch and remove all poultry and feeds from premises.
2. Remove all trash containers with eggshells, down, etc. from the hatching area.
3. Remove all litter and droppings from floors, walls and surfaces of facilities occupied or traversed by poultry.
4. Empty all troughs, racks and other feeding and watering appliances.
5. Thoroughly clean all surfaces with soap or detergent. Rinse surfaces with water.

##### Treatment Process

6. Activate *Selectrocide*<sup>®</sup> 2L500 according to "Directions for Use" on pouch [container] label. [Activate [*Selectrocide*<sup>®</sup> Pouch 200MG] [CLO2BBER 100] [*Selectrocide*<sup>®</sup>Pouch 100MG] according to "Directions for Use" on pouch [container] label to prepare a 100 ppm solution in accordance with instructions.]
7. Prepare a 100 ppm solution in accordance with instructions above OR use the undiluted contents of the activated *Selectrocide*<sup>®</sup> 2L500 pouch [container] with a 1:5 dilution device (one part activated solution to four parts water).] [Prepare a 100 ppm solution in accordance with the instructions above OR use the undiluted contents of the activated [*Selectrocide*<sup>®</sup> Pouch 200MG] [CLO2BBER 100].] [Prepare a 100 ppm solution in accordance with instructions above by adding 1 liter of water to the Selectrocide<sup>®</sup>Pouch 100MG.]
8. Spray hard non-porous surfaces within the entire area, being sure to cover walls, ceiling, floors, equipment and benches. All hard, non-porous surfaces should be wet for ten (10) minutes. Vacate the premises during this treatment. For spraying applications, wear a NIOSH/MSHA-approved respirator appropriate for use with chlorine dioxide.
9. Dispose of package(s) and spent envelope(s) according to instructions on package label. Do not reuse.

##### Post-Treatment

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10. After treatment, ventilate buildings, coops or other enclosed spaces. Do not house poultry or employ equipment until treatment has been absorbed, set or dried.
11. Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains and waterers with soap or detergent and rinse with potable water before use.
12. Prepare hand/glove rinses for worker use. For instruction in the preparation of hand/glove rinses, please refer to the corresponding section of this document. Replace all hand/glove dips daily or when solution is soiled. Keep doors to the room closed at all times to prevent bacterial contamination.

#### **DISINFECTION TREATMENT OF INCUBATOR ROOM (NOT FOR USE IN CALIFORNIA):**

1. Activate *Selectroicide*<sup>®</sup> 2L500 according to "Directions for Use" on pouch [container] label. [Activate [*Selectroicide*<sup>®</sup> Pouch 200MG] [*CLO2BBBER* 100] [*Selectroicide*<sup>®</sup>Pouch 100MG] according to "Directions for Use" on pouch [container] label to prepare a 100 ppm solution in accordance with instructions.]
2. Before treatment, spray incubator room a high-pressure water wash. Remove gross filth or soil from all surfaces.
3. Prepare a 100 ppm solution in accordance with instructions above OR use the undiluted contents of the activated *Selectroicide*<sup>®</sup> 2L500 pouch [container] with a 1:5 dilution device (one part activated solution to four parts water). [Prepare a 100 ppm solution in accordance with the instructions above OR use the undiluted contents of the activated [*Selectroicide*<sup>®</sup> Pouch 200MG] [*CLO2BBBER* 100].] [Prepare a 100 ppm solution in accordance with instructions above by adding 1 liter of water to the *Selectroicide*<sup>®</sup>Pouch 100MG.]
4. Spray hard non-porous surfaces within the entire area, being sure to cover walls, ceiling, floors, equipment and benches. All hard, non-porous surfaces should be wet for ten (10) minutes. Vacate the premises during this treatment. For spraying applications, wear a NIOSH/MSHA-approved respirator appropriate for use with chlorine dioxide. Treat incubator room in this manner once a week.
5. Allow treated surfaces to air dry and then ventilate the area.
6. Prepare and place a shoe bath at the entrance to the egg room for use upon entry. Prepare a hand/glove bath. For instruction in the preparation of shoe baths and hand/glove rinses, please refer to the "Use In Glove Dips And Shoe Baths" section of this document. Replace the shoe bath and the hand/glove dip daily or when a solution is soiled. Keep doors to the room closed at all times to prevent bacterial contamination.
7. Each time eggs are removed from the incubator, submerge eggs in glove dip, then spray with spray bottle. Replace the hand/glove dip daily or when solution is soiled.
8. Dispose of package(s) and spent envelope(s) according to instructions on package label. Do not rinse treated surfaces. Do not reuse solution

#### **TREATMENT OF TRAY WASHING ROOM:**

##### *Sanitizing Treatment of Tray Washing Equipment*

1. Activate *Selectroicide*<sup>®</sup> 2L500 [*Selectroicide*<sup>®</sup> Pouch 200MG] [*CLO2BBBER* 100] [*Selectroicide*<sup>®</sup>Pouch 100MG] according to "Directions for Use" on pouch [container] label.
2. Spray the trays, carriages and other working equipment in a tray washing machine with water at a pressure of 300-500 psi to remove gross filth and soil.
3. Prepare a 20 ppm solution in accordance with instructions above OR use the undiluted contents of the activated [*Selectroicide*<sup>®</sup> 2L500] [[*Selectroicide*<sup>®</sup> Pouch 200MG] [*CLO2BBBER* 100]]

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[*Selectrocide®Pouch 100MG*] pouch [container] with a [1:25] [1:5] [1:3.5] dilution device (one part activated solution to [24] [4] [2.5] parts water).

4. Spray trays, carriages, and other working equipment in a tray washing machine with solution. All hard, non-porous surfaces should be wet for five (5) minutes.
5. Store treated equipment in a closed area for reuse.

#### Disinfecting Treatment of Tray Washing Room

6. Activate *Selectrocide® 2L500* [*Selectrocide® Pouch 200MG*] [*CLO2BBER 100*] [*Selectrocide®Pouch 100MG*] according to “Directions for Use” on pouch [container] label.
7. Close all doors in the tray washing room to avoid contamination of other hatchery operations. Discard all chick downs, egg shells, and cast-off chicks into the trash barrels and transfer the covered containers to the loading platform for disposal
8. Spray tray washing room a high-pressure water wash. Remove gross filth or soil from all surfaces.
9. Prepare a 100 ppm solution in accordance with instructions above OR use the undiluted contents of the activated *Selectrocide® 2L500* pouch [container] with a 1:5 dilution device (one part activated solution to four parts water). [Prepare a 100 ppm solution in accordance with the instructions above OR use the undiluted contents of the activated [*Selectrocide® Pouch 200MG*] [*CLO2BBER 100*].] [Prepare a 100 ppm solution in accordance with instructions above by adding 1 liter of water to the *Selectrocide®Pouch 100MG* product.]
10. Spray hard non-porous surfaces in the tray washing room, being sure to cover walls, ceiling, floors, equipment and benches. All hard, non-porous surfaces should be wet for fifteen (15) minutes. Vacate the premises during this treatment. For spraying applications, wear a NIOSH/MSHA-approved respirator appropriate for use with chlorine dioxide. Treat tray washing room in this manner after every use.
11. After treatment, ventilate buildings, coops or other enclosed spaces. Do not re-house equipment until treatment has been absorbed, set or dried. Do not rinse treated surfaces. Do not reuse solution. Keep doors to the room closed at all times to prevent bacterial contamination.
12. Dispose of package(s) and spent envelope(s) according to instructions on package label.

#### Cleaning the Loading Platform

13. Spray loading platform with a high-pressure water wash to remove gross filth or soil from all surfaces.
14. Scrub loading platform with soap or detergent.
15. Rinse loading platform with water.

### **DINFECTIOIN TREATMENT OF CHICK ROOM, CHICK GRADING BOX, AND SEXING ROOM (NOT FOR USE IN CALIFORNIA):**

#### Pre-Treatment

1. Activate *Selectrocide® 2L500* according to "Directions for Use" on pouch [container] label. [Activate [*Selectrocide® Pouch 200MG*] [*CLO2BBER 100*] [*Selectrocide®Pouch 100MG*] according to “Directions for Use” on pouch [container] label.
2. Prepare a 100 ppm solution in accordance with instructions above OR use the undiluted contents of the activated *Selectrocide® 2L500* pouch [container] with a 1:5 dilution device (one part activated solution to four parts water). [Prepare a 100 ppm solution in accordance with the

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instructions above OR use the undiluted contents of the activated [*Selectroicide® Pouch 200MG*] [*CLO2BBER 100*].] [Prepare a 100 ppm solution in accordance with instructions above by adding 1 liter of water to the *Selectroicide®Pouch 100MG* product.]

3. Remove all poultry and feeds from premises, trucks, coops and crates.
4. Empty all troughs, racks and other feeding and watering appliances.
5. Remove all litter and droppings from floors, walls and surfaces of facilities occupied or traversed by poultry.
6. Thoroughly clean all surfaces with soap or detergent and rinse with water.

#### Treatment Process

7. Spray the solution onto walls, ceilings, floors, and other hard, non-porous surfaces until surfaces are lightly damp. For spraying applications, wear a NIOSH/MSHA-approved respirator appropriate for use with chlorine dioxide. Using a commercial sprayer, saturate all hard, non-porous surfaces. Vacate the premises during this treatment. For all spraying applications, wear a NIOSH/MSHA-approved respirator appropriate for use with chlorine dioxide.
8. Allow treated surfaces to air dry and then ventilate the area. Do not reuse solution. Do not rinse treated surfaces. Keep doors to the room closed at all times to prevent bacterial contamination.
9. Dispose of package(s) and spent envelope(s) according to instructions on package label.

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### **E. To disinfect drinking fountains, chalkboards, chairs, desks, tabletops, kitchens, dishes, silverware, high chairs, toys, other hard, non-porous surfaces in daycares and schools:**

1. Activate *Selectroicide® 2L500* according to "Directions for Use" on pouch [container] label. [Activate [*Selectroicide® Pouch 200MG*] [*CLO2BBER 100*] [*Selectroicide®Pouch 100MG*] according to "Directions for Use" on pouch [container] label to prepare a 100 ppm solution in accordance with instructions.]
2. Clean all surfaces thoroughly with a suitable detergent and rinse with water prior to disinfection.
3. Prepare a 100 ppm solution in accordance with instructions above OR use the undiluted contents of the activated *Selectroicide® 2L500* pouch [container] with a 1:5 dilution device (one part activated solution to four parts water). [Prepare a 100 ppm solution in accordance with the instructions above OR use the undiluted contents of the activated [*Selectroicide® Pouch 200MG*] [*CLO2BBER 100*].] [Prepare a 100 ppm solution in accordance with instructions above by adding 1 liter of water to the *Selectroicide®Pouch 100MG*.]
4. Spray, mop or sponge the 100 ppm solution onto surfaces to be disinfected. All surfaces must be visibly wet for at least ten (10) minutes. When spraying disinfectant solution, use an appropriate spraying device. When applying these solutions using a high-pressure sprayer, wear a NIOSH/MSHA-approved respirator appropriate for chlorine dioxide.
5. After disinfecting, allow surfaces or equipment to air dry. Do not reuse solution. Do not rinse disinfected surfaces.
6. Dispose of package and spent envelope according to instructions on package label.

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### **F. To Disinfect Display screens, scales and measures, keyboards, CPR dummies, backboards, AEDs, and other hard, non-porous surfaces found in acute care centers, emergency rooms, and ambulances:**

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1. Activate *Selectroicide*<sup>®</sup> 2L500 according to “Directions for Use” on pouch [container] label. [Activate [*Selectroicide*<sup>®</sup> Pouch 200MG] [CLO2BBER 100] [*Selectroicide*<sup>®</sup>Pouch 100MG] according to “Directions for Use” on pouch label to prepare a 100 ppm solution in accordance with instructions.]
2. Clean all surfaces thoroughly with a suitable detergent and rinse with water prior to disinfection.
3. Prepare a 100 ppm solution in accordance with instructions above OR use the undiluted contents of the activated *Selectroicide*<sup>®</sup> 2L500 pouch [container] with a 1:5 dilution device (one part activated solution to four parts water). [Prepare a 100 ppm solution in accordance with the instructions above OR use the undiluted contents of the activated [*Selectroicide*<sup>®</sup> Pouch 200MG] [CLO2BBER 100].] [Prepare a 100 ppm solution in accordance with instructions above by adding 1 liter of water to the *Selectroicide*<sup>®</sup>Pouch 100MG.]
4. Spray, mop or sponge the 100 ppm solution onto surfaces to be disinfected. All surfaces must be visibly wet for at least ten (10) minutes. When spraying disinfectant solution, use an appropriate spraying device. When applying these solutions using a high-pressure sprayer, wear a NIOSH/MSHA-approved respirator appropriate for chlorine dioxide.
5. After disinfecting, allow surfaces or equipment to air dry. Do not reuse solution. Do not rinse disinfected surfaces.
6. Dispose of package and spent envelope according to instructions on package label.

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## **G. To disinfect bleachers, lockers, padded mats, weights and weight benches, balls, exercise equipment and other hard, non-porous surfaces found in training rooms, weight rooms, gymnasiums, and other athletic facilities:**

1. Activate *Selectroicide*<sup>®</sup> 2L500 according to "Directions for Use" on pouch [container] label. [Activate [*Selectroicide*<sup>®</sup> Pouch 200MG] [CLO2BBER 100] according to “Directions for Use” on pouch [container] label to prepare a 100 ppm solution in accordance with instructions.]
2. Clean all surfaces thoroughly with a suitable detergent and rinse with water prior to disinfection.
7. Prepare a 100 ppm solution in accordance with instructions above OR use the undiluted contents of the activated *Selectroicide*<sup>®</sup> 2L500 pouch [container] with a 1:5 dilution device (one part activated solution to four parts water). [Prepare a 100 ppm solution in accordance with the instructions above OR use the undiluted contents of the activated [*Selectroicide*<sup>®</sup> Pouch 200MG] [CLO2BBER 100].] [Prepare a 100 ppm solution in accordance with instructions above by adding 1 liter of water to the *Selectroicide*<sup>®</sup>Pouch 100MG.]
3. Spray, mop or sponge the 100 ppm solution onto surfaces to be disinfected. All surfaces must be visibly wet for at least ten (10) minutes. When spraying disinfectant solution, use an appropriate spraying device. When applying these solutions using a high-pressure sprayer, wear a NIOSH/MSHA-approved respirator appropriate for chlorine dioxide.
4. After disinfecting, allow surfaces or equipment to air dry. Do not reuse solution. Do not rinse disinfected surfaces.
5. Dispose of package and spent envelope according to instructions on package label.

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## **For the sanitization of bottles used to feed calves and other livestock:**

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1. Activate *Selectrocide*<sup>®</sup> 2L500 [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBBER* 100] [*Selectrocide*<sup>®</sup>Pouch 100MG] according to “Directions for Use” on the pouch [container] label.
2. Remove any gross food particles and debris from bottle surface prior to sanitizing using a pre-flush, pre-scrub or pre-soak treatment.
3. Clean bottle thoroughly using a suitable detergent and rinse with clean, potable water before sanitizing.
4. Prepare a 5 ppm solution in accordance with instructions above OR use the undiluted contents of the activated *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] pouch [container] with a 1:100 dilution device (one part activated solution to 99 parts water). [Prepare a 5 ppm solution in accordance with instructions above OR use the undiluted contents of the activated [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBBER* 100]] [*Selectrocide*<sup>®</sup>Pouch 100MG] pouch [container] with a [1:20] [1:10] dilution device (one part activated solution to [19] [9] parts water).]
5. To apply: spray solution onto surface/inside of bottle. Ensure that the target surfaces remain visibly wet for at least one (1) minute. If applying sanitizer using an existing water supply system, inject the 5 ppm chlorine dioxide solution into the system using a Dosatron<sup>®</sup> dilution/dispenser, or another dilution/dispersing system. This will sanitize the water system, as well as calf bottles.
6. After sanitizing, allow surfaces or equipment to air dry. Do not reuse solution. Do not rinse sanitized surface.
7. Dispose of package and spent envelope according to instructions on package label.

**As a sanitizer for stainless steel and other hard, non-porous food contact surfaces such as tanks, transfer lines and other food processing equipment in food processing plants and in restaurants, dairies, beverage and bottling plants, and commissaries:**

1. Activate *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBBER* 100] [*Selectrocide*<sup>®</sup>Pouch 100MG] according to "Directions for Use" on pouch [container] label.
2. Remove all gross food particles and soil prior to sanitizing using a pre-flush, pre-scrub or pre-soak treatment.
3. Clean tank, line or surface thoroughly using a suitable detergent and rinse with clean, potable water before sanitizing.
4. Prepare a 5 ppm solution in accordance with instructions above OR use the undiluted contents of the activated *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] pouch [container] with a 1:100 dilution device (one part activated solution to 99 parts water). [Prepare a 5 ppm solution in accordance with instructions above OR use the undiluted contents of the activated [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBBER* 100] pouch [container] with a 1:20 dilution device (one part activated solution to 19 parts water).] [Prepare a 5 ppm solution in accordance with instructions above OR use the undiluted contents of the activated [*Selectrocide*<sup>®</sup>Pouch 100MG] pouch [container] with a 1:10 dilution device (one part activated solution to 9 parts water).]
5. To apply: spray, mop, sponge or swab surfaces **OR** fill, flush, immerse or circulate in tanks, lines, and equipment, ensuring the target surfaces remain visibly wet for at least one minute. When applying these solutions using a high-pressure sprayer, wear a NIOSH/MSHA-approved respirator appropriate for chlorine dioxide.
6. After sanitizing, allow surfaces or equipment to air dry. Do not reuse solution. Do not rinse sanitized surface.
7. Dispose of pouch [container] according to instructions on pouch [container] label.

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## **TO CLEAN, SANITIZE OR DISINFECT SHELL EGGS INTENDED FOR FOOD OR FOOD PRODUCTS:**

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Technical Bulletin: 2L500 425-12445-011 (Revised 4-20)

## **This product will help clean or sanitize or disinfect eggshells**

1. Activate *Selectrocide*<sup>®</sup> 2L500 according to "Directions for Use" on pouch [container] label. [Activate [*SelectroFresh 2L500 Food Processing*] [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBER* 100] [*Selectrocide*<sup>®</sup>Pouch 100MG] according to "Directions for Use" on pouch label to prepare solution in accordance with the desired concentration between 3 ppm and 100 ppm.

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### **FOR DISINFECTION TREATMENT AT A CONCENTRATION OF 100 PPM: (NOT FOR USE IN CALIFORNIA)**

2. Prepare a 100 ppm solution in accordance with instructions above OR use the undiluted contents of the activated *Selectrocide*<sup>®</sup> 2L500 pouch with a 1:5 dilution device (one part activated solution to four parts water). [Prepare a 100 ppm solution in accordance with the instructions above OR use the undiluted contents of the activated [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBER* 100].] [Prepare a 100 ppm solution in accordance with instructions above by adding 1 liter of water to the *Selectrocide*<sup>®</sup>Pouch 100MG.] Minimum contact time is 10 minutes.

### **FOR SANITIZATION TREATMENT AT A CONCENTRATION OF 5.0 PPM: (NOT FOR USE IN CALIFORNIA)**

2. Prepare a 5 ppm solution in accordance with instructions above OR use the undiluted contents of the activated *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] pouch [container] with a 1:100 dilution device (one part activated solution to 99 parts water). [Prepare a 5 ppm solution in accordance with instructions above OR use the undiluted contents of the activated [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBER* 100] pouch with a 1:20 dilution device (one part activated solution to 19 parts water).] [Prepare a 5 ppm solution in accordance with instructions above OR use the undiluted contents of the activated *Selectrocide*<sup>®</sup>Pouch 100MG pouch with a 1:10 dilution device (one part activated solution to 9 parts water).] Minimum contact time is 5 minutes.

### **[FOR CLEANING TREATMENT AT A CONCENTRATION OF 3.0 PPM:] [THIS IS A CLEANING APPLICATION, NON-PUBLIC HEALTH USE.]**

2. [Dilute activated *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBER* 100] [*Selectrocide*<sup>®</sup>Pouch 100MG] until solution reaches a concentration of 3.0 ppm. Minimum contact time is 5 minutes.

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### **FOR TREATMENT AT ALL CONCENTRATIONS:**

3. Spray eggs thoroughly with activated solution, making sure that surface area is thoroughly wet. Solution should be equal to or warmer than the eggs, but not to exceed 130° F.
4. Dispose of package(s) and spent envelope(s) according to instructions on package label. Do not rinse treated surfaces. Do not reuse solution.

Eggs that have been sanitized with this chlorine dioxide compound may be broken in the manufacture of egg products without a prior potable water rinse. Eggs must be reasonably dry before casing or breaking.

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## DISINFECTANT FOR BEVERAGE AND WATER SYSTEMS AND LINES

To disinfect lines, holding tanks and other equipment used in fountain drink or other beverage preparation, storage, transfer and dispensing operations or to disinfect the lines and storage tanks of potable water storage systems aboard aircraft, boats and RVs (clean-in-place applications):

Prior to disinfecting, clean tanks and flush thoroughly with clean, potable water

### FOR A TEN (10) MINUTE OR LONGER DISINFECTION

1. Activate *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] according to “Directions for Use” on pouch [container] label.
2. Prepare a 100 ppm solution in accordance with instructions above **OR** use the undiluted contents of the activated *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] pouch [container] with a 1:5 dilution device (one part activated solution to four parts water) **OR** add the entire contents of one *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] pouch [container] for each 8 liters (2.0 gallons) of water added to the tank.
3. **Fill tank completely with 100 ppm solution.** Run solution through transfer lines and appliances until green solution appears at the outlets. Top-off tank with solution. Circulate or let stand in tank and lines for at least ten (10) minutes.
4. Drain tanks and lines. Rinse with potable water.
5. Dispose of pouch [container] according to instructions on pouch [container] label.

## SANITIZATION AND GENERAL CLEANING APPLICATIONS FOR WATER LINES AND TANKS IN POTABLE WATER SYSTEMS

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This product will reduce microbial populations in the potable water holding tanks and lines of recreational vehicles (RV) and boats; in marine and RV wastewater tanks and lines; and fountain drink or other beverage preparation, storage, transfer and dispensing lines and equipment, and in coolers, thermoses, plastic water bottles, and other water-storing and dispensing systems used for picnics, camping, and other recreational activities. In addition, it will clean, eliminate odors, and remove organic matter. These uses must be followed by a potable water rinse.

NOTE: If the tank system is cleaned frequently, then consider the level of contamination to be **low to moderate**. If the tank system is used heavily, notably fouled, cleaned irregularly, or going into or coming out of overwintering, then consider the tank(s) level of contamination to be **high**.

1. Based on the judged level of contamination (see box above), determine the number of pouches [containers] of *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] necessary to clean the drinking water system in accordance with the table below. Consider all interconnected tanks in the system as one. {*For example*: A system with two 80-gallon tanks has a total capacity of 160 gallons. At low to moderate contamination, use two (2)

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*Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] pouches [containers]; at high levels of contamination, use four (4) pouches or containers.}

2. Activate the *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] pouch(es) [container(s)] according to “Directions for Use” on pouch [container] label.
3. Drain all water tanks completely. Then, refill tanks with water to approximately 10% of their capacity (for example, a 100-gallon tank should be filled with 10 gallons of water.)
4. After the two-hour activation time, add the contents from the number of pouches [containers] calculated in instruction 1 to the water tanks. **Do not add additional water. Do not refill tank. Close the tank.**

FOR TANKS OF THIS OVERALL SIZE		FILL WITH APPROXIMATELY THIS MUCH WATER (≈ 10% of capacity)	FOR LOW TO MODERATE LEVELS OF CONTAMINATION USE THIS NUMBER OF ACTIVATED POUCHES [CONTAINERS]	FOR HIGH LEVELS OF CONTAMINATION USE THIS NUMBER OF ACTIVATED POUCHES [CONTAINERS]
More than:	Less Than:			
5 gallons	50 gallons	19 liters/5 gallons	1	1
50 gallons	100 gallons	38 liters/10 gallons	1	2
100 gallons	150 gallons	56 liters/15 gallons	1	3
150 gallons	200 gallons	75 liters/20 gallons	2	4
200 gallons	250 gallons	95 liters/25 gallons	2	5
250 gallons	300 gallons	113 liters/30 gallons	2	6
300 gallons	350 gallons	132 liters/35 gallons	2	7
350 gallons	400 gallons	151 liters /40 gallons	3	8
400 gallons	500 gallons	190 liters/50 gallons	3	10

5. Circulate the diluted *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] solution through all lines and between tanks using the system’s pumps.
6. Run approximately 6 ounces of the *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] solution through each outlet (faucet, shower etc.), and let the solution stand in the tanks and lines **OVERNIGHT**.
7. The next day, flush the *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] solution through all faucets and outlets until the tanks are empty.
8. Refill the tanks with rinse water to approximately 10% of their capacity (10 gallons per 100 gallons capacity).
9. Circulate the water and flush rinse water through all faucets and outlets until tanks are empty.
10. Tanks are now cleaned and can be refilled for use or left empty for storage.
11. Dispose of pouch [container] according to instructions on the pouch [container] label.

## USES IN INDUSTRIAL FLUID LINES AND SYSTEMS

**This product can be used in the sanitization treatment of milking equipment and pasteurizers, stainless steel transfer lines, hydro coolers, and ice-making machinery.**

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**For each below application, sanitization of all hard non-porous surfaces requires at least 5ppm and 1 minute contact time.**

### **A. Sanitization of milking equipment:**

Prior to sanitization, ensure that milking equipment is adequately cleaned according to manufacturer specifications. Milking equipment should be treated within thirty (30) minutes before each milking cycle.

1. Activate *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] [*Selectrocide*<sup>®</sup> Pouch 200MG] [CLO2BBBER 100] [*Selectrocide*<sup>®</sup>Pouch 100MG] pouch according to "Directions for Use" on pouch label.
2. Disassemble from milking equipment all parts that require sanitization by-hand.
3. Prepare a 5 ppm solution in accordance with instructions above OR use the undiluted contents of the activated *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] pouch with a 1:100 dilution device (one part activated solution to 99 parts water). [Prepare a 5 ppm solution in accordance with instructions above OR use the undiluted contents of the activated [*Selectrocide*<sup>®</sup> Pouch 200MG] [CLO2BBBER 100] pouch with a 1:20 dilution device (one part activated solution to 19 parts water).] [Prepare a 5 ppm solution in accordance with instructions above OR use the undiluted contents of the activated *Selectrocide*<sup>®</sup>Pouch 100MG pouch with a 1:10 dilution device (one part activated solution to 9 parts water).]
4. Dip parts in solution. Do not rinse. Minimum contact time is 5 minutes.
5. Reattach sanitized parts to milking equipment.
6. Using a dosing pump, cycle 5 ppm solution of activated *Selectrocide*<sup>®</sup> 2L500 [*Selectrocide*<sup>®</sup> Pouch 200MG] [CLO2BBBER 100] [*Selectrocide*<sup>®</sup>Pouch 100MG] through pipeline for 5 minutes immediately before milking cycle. Ensure that the temperature of the activated *Selectrocide*<sup>®</sup> 2L500 [*Selectrocide*<sup>®</sup> Pouch 200MG] [CLO2BBBER 100] [*Selectrocide*<sup>®</sup>Pouch 100MG] is between 100°F and 110°F.
7. Fully drain solution from pipeline.
8. Dispose of package(s) and spent envelope(s) according to instructions on package label. Do not reuse solution.

### **B. Sanitization of stainless steel transfer lines, hydro coolers, and pasteurizers:**

1. Activate *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] [*Selectrocide*<sup>®</sup> Pouch 200MG] [CLO2BBBER 100] [*Selectrocide*<sup>®</sup>Pouch 100MG] pouch [container] according to "Directions for Use on pouch label.
2. Prepare a solution of a suitable detergent. Run solution through lines for preliminary cleaning.
3. Run a rinse of potable water through the line.
4. Prepare a 20 ppm solution in accordance with instructions above OR use the undiluted contents of the activated [[*Selectrocide*<sup>®</sup> 2L500] [*SelectroFresh 2L500 Food Processing*]] [[*Selectrocide*<sup>®</sup> Pouch 200MG] [CLO2BBBER 100]] [*Selectrocide*<sup>®</sup>Pouch 100MG] pouch with a [1:25] [1:5] [1:3.5] dilution device (one part activated solution to [24] [4] [2.5] parts water).
5. Fill lines with solution. Minimum contact time is 5 minutes.
6. Dip parts in solution. Do not rinse.
7. Fill lines with solution and let sit overnight.
8. Fully drain solution from lines and allow to air dry before next use.
9. Dispose of package(s) and spent envelope(s) according to instructions on package label. Do not reuse solution. Do not rinse treated surfaces.

### **C. Sanitization of ice-making machinery:**

1. Activate *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] [*Selectrocide*<sup>®</sup> Pouch 200MG] [CLO2BBBER 100] [*Selectrocide*<sup>®</sup>Pouch 100MG] pouch [container] according to "Directions for Use" on pouch [container] label.
2. Disassemble ice-making machinery.
3. Clean parts using a suitable detergent. Rinse parts with potable water and let air dry. Minimum contact time is 5 minutes. Reassemble machinery.

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4. Using a dosing pump, add activated *Selectroicide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] [*Selectroicide*<sup>®</sup> Pouch 200MG] [. 100] [*Selectroicide*<sup>®</sup>Pouch 100MG] to incoming waterline of ice-making machinery directly in accordance with instructions OR prepare a 100 ppm activated *Selectroicide*<sup>®</sup> 2L500 [*Selectroicide*<sup>®</sup> Pouch 200MG] [CLO2BBBER 100] [*Selectroicide*<sup>®</sup>Pouch 100MG] solution to add to the incoming waterline of ice-making machinery ensuring that any residual chlorine dioxide is at or below 0.8 ppm in accordance with EPA SDWA.
5. Dispose of package(s) and spent envelope(s) according to instructions on package label. Do not reuse solution. Do not rinse treated surfaces.

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## LABORATORY EQUIPMENT SURFACES OF WATER BATHS

**This product can be used in the disinfecting treatment of surfaces of water baths meant for use in laboratories.**

1. Activate *Selectroicide*<sup>®</sup> 2L500 [*Selectroicide*<sup>®</sup> Pouch 200MG] [CLO2BBBER 100] [*Selectroicide*<sup>®</sup>Pouch 100MG] according to “Directions for Use” on the pouch [container] label.
2. Disconnect water bath from power source and drain bathwater.
3. Scrub hard, nonporous surfaces of bath with soap or other detergent until visible filth is removed. Rinse hard, nonporous surfaces of bath with potable water. Drain bath once more and allow hard, nonporous surfaces to dry. Drain. Allow to air dry just prior to next run start-up.
4. Prepare a 100 ppm solution in accordance with instructions above **OR** use the undiluted contents of the activated *Selectroicide*<sup>®</sup> 2L500 pouch [container] with a 1:5 dilution device (one part activated solution to four parts water). [Prepare a 100 ppm solution in accordance with the instructions above OR use the undiluted contents of the activated [*Selectroicide*<sup>®</sup> Pouch 200MG] [CLO2BBBER 100].] [Prepare a 100 ppm solution in accordance with instructions above by adding 1 liter of water to the *Selectroicide*<sup>®</sup>Pouch 100MG.]
5. Spray or sponge activated solution on hard, nonporous surfaces of bath. For spraying applications, wear a NIOSH/MSHA-approved respirator appropriate for use with chlorine dioxide. All surfaces must be visibly wet for at least ten (10) minutes.
6. Allow surfaces to air dry. Do not reuse solution. Do not rinse disinfected surfaces.
7. Dispose of package(s) and spent envelope(s) according to instructions on package label.

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## SANITIZING FINAL RINSE OF PRE-CLEANED OR NEW RETURNABLE OR NON-RETURNABLE CONTAINERS

**This product may be used as a final sanitizing rinse for plastic, glass or metal returnable and non-returnable bottles, cans, caps, kegs, and beverage containers.**

**For a 30 ppm rinse:**

1. Activate *Selectroicide*<sup>®</sup> 2L500 [*Selectroicide*<sup>®</sup> Pouch 200MG] [CLO2BBBER 100] according to “Directions for Use” on the pouch [container] label.
2. Wash bottles, cans or containers with detergent or cleaning solution and rinse with potable water.

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- Starting with the 500 ppm solution, use a 6:100 dilution device (six parts 500 ppm solution to 94 parts water) to achieve an application concentration of 30 ppm. The table below presents the number of 2L500 pouches [containers] necessary to product the associated volume of 30 ppm application solution. [Starting with the 100 ppm solution, use a 30:100 dilution device (thirty parts 100 ppm solution to 70 parts water) to achieve an application concentration of 30 ppm. The table below presents the number of *Selectrocide*<sup>®</sup> Pouch 200MG pouches [containers] necessary to product the associated volume of 30 ppm application solution.]

**VOLUME OF 30 PPM SOLUTION USING  
SELECTROCIDE<sup>®</sup> 2L500 POUCHES [CONTAINERS]**

Number of [ <i>Selectrocide</i> <sup>®</sup> 2L500] [ <i>Selectrocide</i> <sup>®</sup> Pouch 200MG] [CLO2BBER 100] Pouches [Containers]	Volume of Water Specified To Generate [500] [100] [100] ppm Stock Solution			Volume of 30 ppm Solution Created Using a Single <i>Selectrocide</i> <sup>®</sup> 2L500] [ <i>Selectrocide</i> <sup>®</sup> Pouch 200MG] [CLO2BBER 100] Pouch [Container]		
	Liters	Liters <sup>1</sup>	Gallons <sup>1</sup>			
1	[2][2][1]	[33][6.5][3]	[8.5][1.5][0.75]			
2	[4][4][2]	[66.5][13][6.5]	[17.5][3.5][1.75]			
3	[6][6][3]	[100][20][10]	[26][5][2.5]			
4	[8][8][4]	[133][26][13]	[35][6.5][3.5]			
5	[10][10][5]	[167][33][16.5]	[44][8.5][4]			

<sup>1</sup>Rounded to nearest liter or tenths of gallon

- To apply: rinse interior and exterior surfaces with the 30 ppm solutions by spraying, sponging, swabbing, or swirling, or immersing in a manner that ensures the target surfaces become visibly wet for a contact time of 1 minute (including drying time). (If applying these solutions using a high-pressure sprayer, wear a NIOSH/MSHA-approved respirator appropriate for chlorine dioxide).
- Allow to drain dry.

**For a 5 ppm rinse:**

- Activate *Selectrocide*<sup>®</sup> 2L500 [*Selectrocide*<sup>®</sup> Pouch 200MG] [CLO2BBER 100] according to “Directions for Use” on the pouch [container] label.
- Wash bottles, cans or containers with detergent or cleaning solution and rinse with potable water.
- Prepare a 5 ppm solution in accordance with instructions above OR use the undiluted contents of the activated *Selectrocide*<sup>®</sup> 2L500 pouch [container] with a 1:100 dilution device (one part activated solution to 99 parts water). [Prepare a 5 ppm solution in accordance with instructions above OR use the undiluted

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contents of the activated [*Selectrocide*<sup>®</sup> Pouch 200MG] [CLO2BBER 100] pouch with a 1:20 dilution device (one part activated solution to 19 parts water).]

**VOLUME OF 5 PPM SOLUTION USING  
SELECTROCIDE<sup>®</sup> 2L500 POUCHES [CONTAINERS]**

Number of [ <i>Selectrocide</i> <sup>®</sup> 2L500] [CLO2BBER 100] [ <i>Selectrocide</i> <sup>®</sup> Pouch 200MG] Pouches [Containers]	Volume of Water Specified To Generate [500] [100] [100] ppm Stock Solution	Volume of 5 ppm Solution Created Using a Single <i>Selectrocide</i> <sup>®</sup> 2L500] [ <i>Selectrocide</i> <sup>®</sup> Pouch 200MG] [CLO2BBER 100] Pouch [Container]	
	Liters	Liters <sup>1</sup>	Gallons <sup>1</sup>
1	[2] [1] [2]	[200] [20] [40]	[52.5] [5] [10.5]
2	[4] [2] [4]	[400] [40] [80]	[105] [10] [21]
3	[6] [3] [6]	[600] [60] [120]	[158] [16] [31.5]
4	[8] [4] [8]	[800] [80] [120]	[210.5] [21] [31.5]
5	[10] [5] [10]	[1,000] [100] [200]	[263] [26] [52.5]

<sup>1</sup>Rounded to nearest liter or tenths of gallon

- To apply: rinse interior and exterior surfaces with the 5 ppm solutions by spraying, sponging, swabbing, or swirling, or immersing in a manner that ensures the target surfaces become visibly wet for a contact time of 1 minute (including drying time). (If applying these solutions using a high-pressure sprayer, wear a NIOSH/MSHA-approved respirator appropriate for chlorine dioxide).
- Allow to drain dry.

NOTE: Use products from the *Selectrocide*<sup>®</sup> G-Series for larger-volume applications.

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## DISINFECTING, SANITIZING/ANTIMICROBIAL AND GENERAL CLEANING APPLICATIONS FOR WINERIES

**This product will disinfect, sanitize, and clean winemaking equipment and environmental surfaces in wineries. It is effective against microbes and spoilage organisms on all non-porous surfaces including: picking bins, crushers, transfer lines/hoses/pipes, tanks, drains, pumps, presses, de-stemmers, sealed concrete**

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**floors and walls, steel cutting boards/surfaces, sumps, valves and tri-clover fittings, pruning shears, and steel wine barrels.**

- NOTE:** 1. For additional information on label applications or to discuss other winery-specific application issues, contact Selective Micro Technologies' service personnel.
2. This product does not produce Trichloroanisol (TCA) or precursor Trichlorophenol (TCP) by chemical reaction in red wine or in cooperage oak, and therefore does not contribute to the off odors associated with the former.

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## **A. Disinfecting and sanitizing applications for winery equipment and environmental surfaces (including all non-porous materials and surfaces, such as transfer hoses and pipes, and other items listed above):**

1. Activate *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBER 100*] [*Selectrocide*<sup>®</sup>Pouch 100MG] according to "Directions for Use" on pouch [container] label.
2. Disinfecting Applications. For disinfecting applications, prepare a 100 ppm solution in accordance with instructions above OR use the undiluted contents of the activated *Selectrocide*<sup>®</sup> 2L500 pouch [container] with a 1:5 dilution device (one part activated solution to four parts water). [Prepare a 100 ppm solution in accordance with the instructions above OR use the undiluted contents of the activated [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBER 100*].] [Prepare a 100 ppm solution in accordance with instructions above by adding 1 liter of water to the *Selectrocide*<sup>®</sup>Pouch 100MG.]
3. Sanitizing Applications on hard, food-contact surfaces. For sanitizing applications on hard, food-contact surfaces, are a 5 ppm solution in accordance with instructions above OR use the undiluted contents of the activated *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] pouch with a 1:100 dilution device (one part activated solution to 99 parts water). [Prepare a 5 ppm solution in accordance with instructions above OR use the undiluted contents of the activated [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBER 100*] pouch [container] with a 1:20 dilution device (one part activated solution to 19 parts water).] [Prepare a 5 ppm solution in accordance with instructions above OR use the undiluted contents of the activated [*Selectrocide*<sup>®</sup>Pouch 100MG] pouch [container] with a 1:10 dilution device (one part activated solution to 9 parts water).]
4. Sanitizing Applications on hard, non-food-contact surfaces. For sanitizing applications on hard, non-food-contact surfaces, prepare a 20 ppm solution in accordance with instructions above OR use the undiluted contents of the activated [[*Selectrocide*<sup>®</sup> 2L500] [*SelectroFresh 2L500 Food Processing*]] [[*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBER 100*]] [*Selectrocide*<sup>®</sup>Pouch 100MG] pouch [container] with a [1:25] [1:5] [1:3.5] dilution device (one part activated solution to [24] [4] [2.5] parts water).
5. Apply to target surfaces with mop, sponge, or spray **OR** fill, flush, immerse or circulate in tanks, lines and equipment, ensuring surfaces remain visibly wet for the following contact times:
  - Disinfection (100 ppm): 10 minutes
  - Sanitizing hard food-contact surfaces (5 ppm): 1 minute
  - Sanitizing hard non-food contact surfaces (20 ppm): 5 minutes
6. Dispose of pouch [container] according to instructions on pouch [container] label.

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## **B. For sanitizing and cleaning tanks and associated connections, pipes, and hoses:**

Use products from the *Selectrocide*<sup>®</sup> G-Series for these large-volume applications.

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## DISINFECTING, SANITIZING/ANTIMICROBIAL AND GENERAL CLEANING APPLICATIONS IN BREWERIES

**This product will disinfect, sanitize, and clean brewing equipment and environmental surfaces in breweries. It is effective against microbes and spoilage organisms on all non-porous surfaces including tanks, bins, transfer lines/hoses/pipes, drains, fittings, pumps, sealed concrete floors and walls, steel surfaces, sumps, and valves.**

**NOTE: For additional information on label applications or to discuss other brewery-specific application issues, contact Selective Micro Technologies' service personnel.**

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### **A. Disinfecting and sanitizing applications for brewery equipment and environmental surfaces (including all non-porous materials and surfaces, such as transfer hoses and pipes, and other items listed above):**

1. Activate *Selectroicide® 2L500* [*SelectroFresh 2L500 Food Processing*] [*Selectroicide® Pouch 200MG*] [*CLO2BBBER100*] [*Selectroicide®Pouch 100MG*] according to "Directions for Use" on pouch [container] label.
2. Disinfecting Applications. For disinfecting applications, prepare a 100 ppm solution in accordance with instructions above OR use the undiluted contents of the activated *Selectroicide® 2L500* pouch [container] with a 1:5 dilution device (one part activated solution to four parts water). [Prepare a 100 ppm solution in accordance with the instructions above OR use the undiluted contents of the activated [*Selectroicide® Pouch 200MG*] [*CLO2BBBER 100*].] [Prepare a 100 ppm solution in accordance with instructions above by adding 1 liter of water to the *Selectroicide®Pouch 100MG*.]
3. Sanitizing Applications on hard, food-contact surfaces. For sanitizing applications on hard, food-contact surfaces, are a 5 ppm solution in accordance with instructions above OR use the undiluted contents of the activated *Selectroicide® 2L500* [*SelectroFresh 2L500 Food Processing*] pouch [container] with a 1:100 dilution device (one part activated solution to 99 parts water). [Prepare a 5 ppm solution in accordance with instructions above OR use the undiluted contents of the activated [*Selectroicide® Pouch 200MG*] [*CLO2BBBER 100*] pouch [container] with a 1:20 dilution device (one part activated solution to 19 parts water).] [Prepare a 5 ppm solution in accordance with instructions above OR use the undiluted contents of the activated [*Selectroicide®Pouch 100MG*] pouch [container] with a 1:10 dilution device (one part activated solution to 9 parts water).]
4. Sanitizing Applications on hard, non-food-contact surfaces. For sanitizing applications on hard, non-food-contact surfaces, prepare a 20 ppm solution in accordance with instructions above OR use the undiluted contents of the activated [[*Selectroicide® 2L500*] [*SelectroFresh 2L500 Food Processing*]] [[*Selectroicide® Pouch 200MG*] [*CLO2BBBER 100*]] [*Selectroicide®Pouch 100MG*] pouch [container] with a [1:25] [1:5] [1:3.5] dilution device (one part activated solution to [24] [4] [2.5] parts water).
5. Apply to target surfaces with mop, sponge, or spray **OR** fill, flush, immerse or circulate in tanks, lines and equipment, ensuring surfaces remain visibly wet for the following contact times:
  - Disinfection (100 ppm): 10 minutes
  - Sanitizing hard food-contact surfaces (5 ppm): 1 minute
  - Sanitizing hard non-food contact surfaces (20 ppm): 5 minutes
6. Dispose of pouch [container] according to instructions on pouch [container] label.

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**B. For sanitizing and cleaning tanks and associated connections, pipes, and hoses:**

Use products from the *Selectroicide® G-Series* for these large-volume applications.

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**DISINFECTION OF BATHROOMS, SHOWER ROOMS,  
LOCKER ROOMS, SPAS, AND LAUNDRY ROOMS**

**To disinfect sinks, toilet bowls, toilet seats, toilet handles, empty baths, showers, changing tables, washers, hair dryers, clothes dryers, hand dryers, sinks, faucets and other hard, non-porous surfaces found in bathrooms, shower rooms, locker rooms, spas, and laundry rooms:**

**A. Disinfection treatment of toilet seats, toilet handles, empty baths, showers, changing tables, washers, hair dryers, clothes dryers, hand dryers sinks, faucets, and other hard, non-porous surfaces.**

1. Activate *Selectroicide® 2L500* [*Selectroicide® Pouch 200MG*] [*CLO2BBER 100*] [*Selectroicide®Pouch 100MG*] according to “Directions for Use” on the pouch [container] label.
2. Clean all surfaces thoroughly with a suitable detergent and rinse with water prior to disinfection. Ensure that all surfaces have adequate time to air dry before applying *Selectroicide®* solution.
3. Prepare a 100 ppm solution in accordance with instructions above **OR** use the undiluted contents of the activated *Selectroicide® 2L500* pouch [container] with a 1:5 dilution device (one part activated solution to four parts water). [Prepare a 100 ppm solution in accordance with the instructions above **OR** use the undiluted contents of the activated [*Selectroicide® Pouch 200MG*] [*CLO2BBER 100*].] [Prepare a 100 ppm solution in accordance with instructions above by adding 1 liter of water to the *Selectroicide®Pouch 100MG*.]
4. Spray, mop or sponge the 100 ppm solution onto surfaces to be disinfected. All surfaces must be visibly wet for at least ten (10) minutes. When spraying disinfectant solution, use an appropriate spraying device. When applying these solutions using a high-pressure sprayer, wear a NIOSH/MSHA-approved respirator appropriate for chlorine dioxide.
5. After disinfecting, allow surfaces or equipment to air dry. Do not reuse solution. Do not rinse disinfected surfaces.
6. Dispose of package and spent envelope according to instructions on package label.

**B. Disinfection treatment of toilet bowls.**

1. Activate *Selectroicide® 2L500*] [*Selectroicide® Pouch 200MG*] [*CLO2BBER 100*] [*Selectroicide®Pouch 100MG*] according to “Directions for Use” on the pouch [container] label.
2. Prepare a 100 ppm solution in accordance with instructions above **OR** use the undiluted contents of the activated *Selectroicide® 2L500* pouch [container] with a 1:5 dilution device (one part activated solution to four parts water). [Prepare a 100 ppm solution in accordance with the instructions above **OR** use the undiluted contents of the activated [*Selectroicide® Pouch 200MG*] [*CLO2BBER 100*].]

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[Prepare a 100 ppm solution in accordance with instructions above by adding 1 liter of water to the Selectroicide®Pouch 100MG.]

3. Flush toilet and clean toilet bowl thoroughly with a suitable detergent to ensure that bowl is free of urine and gross filth prior to disinfection.
4. Add *Selectroicide*® 2L500 [*Selectroicide*® Pouch 200MG] [CLO2BBER 100] [*Selectroicide*®Pouch 100MG] to toilet bowl until concentration of chlorine dioxide in toilet water is 100 ppm. Verify concentration using Selective Micro® Test Strips.
5. Stir water gently for one minute. Let water sit for 20 minutes, then flush toilet.
6. Dispose of package and spent envelope according to instructions on package label. Do not reuse solution.

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## DISINFECTING FLOOR DRAINS

**This product can be used in the daily disinfection of floor drains following drain-cleaning processes.**

1. Activate *Selectroicide*® 2L500 according to "Directions for Use" on package label.
2. Prepare a 100 ppm solution of *Selectroicide*® 2L500 OR prepare a 500 ppm *Selectroicide*® 2L500 solution of and use a 1:5 dilution device. Fill a dark, oxidation-resistant 5-gallon container completely with the solution. Secure lid tightly on container.
3. Dispose of package(s) and spent envelope(s) according to instructions on package label. Seal container.
4. Remove drain cover.
5. Stopper drain pipe with an object (such as a disposable cup) to allow the drain basin to fill. Gently insert the object into the drain. Take care to avoid breaking the object off within the drain.
6. Pour approximately 1 gallon of the activated *Selectroicide*® 2L500 into the stopped drain.
7. Reseal container.
8. Allow solution to stand in drain for 10 minutes. If necessary, gently stir solution around drain basin for 1 minute to prevent heavy soil buildup.
9. Remove stopper from drain. Dispose of stopper in isolated trash container (far away from food articles).

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## DISINFECTING AND SANITIZING IN HORTICULTURAL AND HYDROPONIC SETTINGS

**To disinfect non-porous hard surfaces, including stainless steel, glazed tile, sealed concrete and sealed, finished wood used in horticultural applications:**

1. Activate *Selectroicide*® 2L500 [*SelectroFresh* 2L500 Food Processing] [*Selectroicide*® Pouch 200MG] [CLO2BBER 100] [*Selectroicide*®Pouch 100MG] according to "Directions for Use" on pouch [container] label.
2. Pre-clean all surfaces prior to application of disinfectant solution. Sweep and remove all plant debris. Use power sprayer to wash all surfaces to remove loose dirt.
3. Prepare solutions in indicated concentrations and ensure surfaces are wetted and remain visibly wet for the times noted below in the instructions associated with the desired application. Dispose of pouch [container] according to instructions on pouch [container] label.

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### FOR WORK AREAS, BENCHES AND EVAPORATIVE COOLERS

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4. Prepare a 100 ppm solution in accordance with the instructions above OR use the undiluted contents of the activated *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] solution with a 1:5 dilution device (one part activated solution to four parts water). [Prepare a 100 ppm solution in accordance with the instructions above OR use the undiluted contents of the activated [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBER 100*].] [Prepare a 100 ppm solution in accordance with instructions above by adding 1 liter of water to the *Selectrocide*<sup>®</sup>Pouch 100MG.]
5. Spray or swab work area and bench surfaces before each work period and again after each planting is completed. Spray or swab evaporative cooler surfaces, ensuring visible wetness for at least ten (10) minutes. When applying these solutions using a high-pressure sprayer, wear a NIOSH/MSHA-approved respirator appropriate for chlorine dioxide.

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## FOR POTS, FLATS, FLOWER BUCKETS AND CUTTING TOOLS

### FOR A TEN (10) MINUTE OR LONGER DISINFECTION

4. Prepare a 100 ppm solution in accordance with the instructions above OR use the undiluted contents of the activated *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] solution with a 1:5 dilution device (one part activated solution to four parts water).] [Prepare a 100 ppm solution in accordance with the instructions above OR use the undiluted contents of the activated *Selectrocide*<sup>®</sup> Pouch 200MG [*CLO2BBER 100*].] [Prepare a 100 ppm solution in accordance with instructions above by adding 1 liter of water to the *Selectrocide*<sup>®</sup>Pouch 100MG.]
5. Brush or wash used pots and flats, and then soak in the 100 ppm solution for at least ten (10) minutes before reuse. Soak tools with 100 ppm solution for at least ten (10) minutes.
6. Discard solution in sanitary drain or as ordinary non-hazardous waste. Do not reuse solution.

At end of workday, dry and oil tools.

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## To sanitize work area non-porous (non-food contact) hard surfaces, hard-surface benches, pots, flats, flower buckets and cutting tools:

1. Activate *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBER 100*] [*Selectrocide*<sup>®</sup>Pouch 100MG] according to “Directions for Use” on pouch [container] label.
2. Pre-clean all surfaces prior to application of sanitizing solution. Sweep and remove all plant debris. Use power sprayer to wash all surfaces to remove loose dirt.
3. Prepare a 20 ppm solution in accordance with instructions above OR use the undiluted contents of the activated [[*Selectrocide*<sup>®</sup> 2L500] [*SelectroFresh 2L500 Food Processing*]] [[*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBER 100*]] [*Selectrocide*<sup>®</sup>Pouch 100MG] pouch [container] with a [1:25] [1:5] [1:3.5] dilution device (one part activated solution to [24] [4] [2.5] parts water).
4. Brush or wash used pots and flats then swab or soak in the 20 ppm solution for at least five (5) minutes before reuse. Spray, swab or soak tools with 20 ppm solution for at least five (5) minutes. Spray or swab work area and bench surfaces before each work period and again after each planting is completed. If applying these solutions using a high-pressure sprayer, wear a NIOSH/MSHA-approved respirator appropriate for chlorine dioxide. If soaking, discard solution in sanitary drain or as ordinary non-hazardous waste; do not reuse solution.
5. Dispose of pouch [container] according to instructions on pouch [container] label.

At end of workday, dry and oil tools

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## GENERAL USE, NON-PUBLIC HEALTH APPLICATIONS

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### WATER TREATMENT FOR POULTRY DRINKING WATER AND SURFACES IN TROUGHS OR METERING AND INJECTION SYSTEMS

This product will help control microorganisms in drinking water intended for poultry.

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**A. For systems that use automatic, on-demand metering/injection systems designed primarily for poultry (i.e., systems employing nipples or drip wells as the final water delivery device/method, usually situated in enclosed or protected structures):**

1. Activate *Selectocide*<sup>®</sup> 2L500 according to "Directions for Use" on product label.
2. If activation vessel is different from feeder tank, transfer stock solution (500 ppm) to feeder tank. To maintain concentration, ensure that feeder tank is covered.
3. Operate system according to standard operating protocol, using a 1:100 injection device (one part solution to 99 parts water) for a concentration of 5 ppm.
4. Confirm concentrations of stock solution (500 ppm) and end-use solution up to 5 ppm but not less than an application concentration sufficient to ensure a residual concentration of 0.25 ppm using *Selective Micro*<sup>®</sup> Chlorine Dioxide Test Strips.
5. Dispose of pouch [container] according to instructions on pouch [container] label.

Note: Clean and remove accumulations of organic matter in delivery lines on a regular basis. (See, for example, label and technical bulletin instructions for this product under the heading "Sanitizing and General Cleaning Applications for Potable Water Systems")

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**B. For trough-based systems.**

Use products from the *Selectocide*<sup>®</sup> G-Series for these large-volume applications.

### WATER TREATMENT FOR THE DRINKING WATER FOR LIVESTOCK, POULTRY, FUR, AND WOOL-BEARING ANIMALS (NOT FOR USE IN CALIFORNIA)

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**This product will help control microorganisms in drinking water intended for livestock, poultry, fur, and wool-bearing animals.**

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**For systems that use automatic, on-demand metering/injection systems designed primarily for livestock, poultry, fur- and wool- bearing animals (i.e., systems employing nipples or drip wells as the final water delivery device/method, usually situated in enclosed or protected structures):**

1. Activate *Selectroicide*<sup>®</sup> 2L500 according to "Directions for Use" on product label.
2. If activation vessel is different from feeder tank, transfer stock solution (500 ppm) to feeder tank. To maintain concentration, ensure that feeder tank is covered.
3. Operate system according to standard operating protocol, using a 1:100 injection device (one part solution to 99 parts water) for a concentration of 5 ppm.
4. Confirm concentrations of stock solution (500 ppm) and end-use solution up to 5 ppm but not less than an application concentration sufficient to ensure a residual concentration of 0.25 ppm using *Selective Micro*<sup>®</sup> *Chlorine Dioxide Test Strips*.
5. Dispose of package and spent envelope according to instructions on package label.

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## **DEODORIZING TREATMENT FOR CONTROL OF ODOR AND SLIME-FORMING BACTERIA IN ANIMAL CONFINEMENT FACILITIES**

**This product can be used in the cleaning and deodorizing treatment of kennels, pounds, stables, pens, pet houses, and cages**

1. Activate *Selectroicide*<sup>®</sup> 2L500 [*Selectroicide*<sup>®</sup> *Pouch* 200MG] [*CLO2BBER* 100] [*Selectroicide*<sup>®</sup>*Pouch* 100MG] according to "Directions for Use" on the pouch [container] label. Remove all litter and manure from premises and thoroughly clean all surfaces with a suitable soap or detergent and rinse with clean water.
2. Prepare a 100 ppm solution in accordance with instructions above **OR** use the undiluted contents of the activated *Selectroicide*<sup>®</sup> 2L500 pouch [container] with a 1:5 dilution device (one part activated solution to four parts water). [Prepare a 100 ppm solution in accordance with the instructions above **OR** use the undiluted contents of the activated [*Selectroicide*<sup>®</sup> *Pouch* 200MG] [*CLO2BBER* 100].] [Prepare a 100 ppm solution in accordance with instructions above by adding 1 liter of water to the *Selectroicide*<sup>®</sup>*Pouch* 100MG.]
3. Using activated solution, spray or wipe down all hard, non-porous surfaces. For all spraying applications, wear a NIOSH/MSHA-approved respirator appropriate for use with chlorine dioxide. All surfaces must be visibly wet for at least ten (10) minutes.
4. Allow surfaces to air dry. Do not reuse solution. Do not rinse disinfected surfaces.
5. Dispose of package(s) and spent envelope(s) according to instructions on package label.

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## **DEODORIZING AND GENERAL CLEANING USES FOR NON-POTABLE WATER APPLICATIONS INVOLVING RECIRCULATING WATER SYSTEMS (E.G., COOLING TOWERS, PAPER MILLS, AND DECORATIVE OR ORNAMENTAL FOUNTAINS)**

**This product will help remove, control and inhibit reemergence of slimes, algae, bacteria, and other organic buildups in recirculating cooling water systems, including cooling towers and decorative or ornamental fountains. It can be used as a periodic treatment or during continuous operations in deodorizing or treatment applications involving algae, or bacteria.**

1. Activate *Selectroicide*<sup>®</sup> 2L500 according to “Directions for Use” on package label.
2. Prepare a 500 ppm solution of activated *Selectroicide*<sup>®</sup> 2L500 in accordance with label instructions.
3. Where possible, pre-clean surfaces prior to application. Flush tanks or water system with clean water.
4. Apply/add the 500-ppm solution to the tank water or water stream at a point in the system or in a manner which minimizes turbulence and exposure to the air.
5. Dispose of pouch [container] according to instructions on pouch [container] label.

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### **AS AN INITIAL OR REMEDIAL TREATMENT FOR RECIRCULATING COOLING WATER SYSTEMS, WATER HOLDING TANKS AND DECORATIVE AND ORNAMENTAL FOUNTAINS**

6. For each 55 gallons of cooling or fountain water add the contents of a single pouch [container] of activated *Selectroicide*<sup>®</sup> 2L500 solution (2 liters at 500 ppm) to achieve a 5 ppm residual chlorine dioxide level. Circulate water in normal operation of the system.
7. Check residual chlorine dioxide concentration using *Selective Micro*<sup>®</sup> Chlorine Dioxide Test Strips. If residual chlorine dioxide concentration is below 5 ppm, add additional 500 ppm solution until solution reaches 5 ppm; verify with *Test Strips*.
8. Repeat daily until desired results are achieved.

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### **FOR CONTINUOUS TREATMENT TO INHIBIT THE RE-ESTABLISHMENT OF SLIME, ALGAE, OR BACTERIA**

6. For each 550 gallons of cooling or fountain water add the contents of a single pouch [container] of activated *Selectroicide*<sup>®</sup> 2L500 solution (2 liters at 500 ppm) to achieve a residual chlorine dioxide concentration of approximately 0.5 ppm. Circulate water in normal operation of the system.
7. Check residual chlorine dioxide concentration using *Selective Micro*<sup>®</sup> Chlorine Dioxide Test Strips. If residual chlorine dioxide concentration falls below 0.1 ppm, add more 500 ppm solution (about 1 gallon of the 500 ppm solution for each 1,000 gallons of cooling or fountain water) to increase the residual chlorine dioxide concentration to about 0.5 ppm. Verify concentration with *Test Strips*.

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### **INSTRUCTIONS WHEN USING A DOSING PUMP AS AN INITIAL OR REMEDIAL TREATMENT FOR RECIRCULATING COOLING WATER SYSTEMS, WATER HOLDING TANKS AND DECORATIVE AND ORNAMENTAL FOUNTAINS**

6. For each 55 gallons of cooling or fountain water add the contents of a single pouch [container] of activated *Selectroicide*<sup>®</sup> 2L500 solution (2 liters at 500 ppm) to achieve a 5 ppm residual chlorine dioxide level. Circulate water in normal operation of the system.

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7. Check residual chlorine dioxide concentration using *Selective Micro*<sup>®</sup> *Chlorine Dioxide Test Strips*. If residual chlorine dioxide concentration is below 5 ppm, add additional 500 ppm solution until solution reaches 5 ppm; verify with *Test Strips*.
8. Repeat daily until desired results are achieved.

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**INSTRUCTIONS WHEN USING A DOSING PUMP FOR CONTINUOUS TREATMENT TO INHIBIT THE RE-ESTABLISHMENT OF SLIME, ALGAE, OR BACTERIA**

6. Set the dosing pump to achieve a continuous concentration of chlorine dioxide between 0.25 ppm and 0.5 ppm. In order to maintain this concentration and the appropriate dosing, consider the volume of water in the system, half-life (makeup/blowdown rate), evaporative rate and windage loss of the system.
7. Check residual chlorine dioxide concentration using *Selective Micro*<sup>®</sup> *Chlorine Dioxide Test Strips*. If residual chlorine dioxide concentration falls below 0.25 ppm, increase the dosage rate.

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**FOR PERIODIC TREATMENT TO INHIBIT THE RE-ESTABLISHMENT OF SLIME, ALGAE, OR BACTERIA**

6. For each 550 gallons of cooling or fountain water add the contents of a single pouch [container] of activated *Selectocide*<sup>®</sup> 2L500 solution (2 liters at 500 ppm) to achieve approximately 0.5 ppm residual chlorine dioxide concentration. Circulate water in normal operation of the system. Check residual chlorine dioxide concentration using *Selective Micro*<sup>®</sup> *Chlorine Dioxide Test Strips*.
7. Repeat weekly or on first indications of increased slime, algae or bacteria.

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**GENERAL CLEANING APPLICATIONS FOR HIGH-PURITY AND OTHER WATER SYSTEMS AND ASSOCIATED MEMBRANES**

**(E.G., REVERSE OSMOSIS (RO) AND ULTRA FILTER (UF) MEMBRANES)  
(NOT FOR USE IN CALIFORNIA)**

**This product will clean high-purity and other water distribution systems by eliminating odors, removing organic matter, and reducing the microbial populations in system components, lines, tanks, and associated RO & UF membranes.**

This product, when used as directed:

- (1) cleans
- (2) removes organic matter
- (3) reduces biological fouling
- (4) eliminates odors
- (5) reduces microbial populations

**NOTE: Because chlorine dioxide does not ionize and exists as a true gas in aqueous solution, it passes through filtration membranes even at low trans-membrane pressures. This allows both the feed and permeates sides of a membrane to be cleaned simultaneously. Chlorine dioxide's true gaseous state enhances treatment application and facilitates rapid flush-out from water systems.**

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1. Activate *Selectrocide*<sup>®</sup> 2L500 [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBER* 100] [*Selectrocide*<sup>®</sup>Pouch 100MG] according to “Directions for Use” on package label.
2. Prepare a 50 ppm solution in accordance with the directions above **OR** use the undiluted contents of the activated *Selectrocide*<sup>®</sup> 2L500 solution with a 1:10 dilution device (one part activated solution to nine parts water).] [Prepare a 50 ppm solution in accordance with the instructions above **OR** use the undiluted contents of the activated [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBER* 100] solution with a 1:1 dilution device (one part activated solution to 1 part water).][Prepare a 50 ppm solution in accordance with the directions above **OR** use the undiluted contents of the activated *Selectrocide*<sup>®</sup>Pouch 100MG.]
3. To apply: spray solution onto surface/inside of bottle. Make the typical plumbing or valve setting changes used during normal system cleaning cycle.
  - a. If applying a 500 ppm solution using a dosing pump set at an injection rate of 10% on the feed line, direct the RO or UF permeate and reject streams to an authorized drain.
  - b. If applying a 50 ppm solution directly with a self-priming injection pump, the RO or UF permeate and reject streams can be returned to the vessel containing the 50 ppm solution (closed-loop operation).
4. Bypass or shut off process control settings that, during normal production, would normally shut down the RO or UF unit.
5. Remove or bypass activated carbon cartridges. Turn off (or disable) power to any UV lights. Inject 50 ppm solution. Flow rate should be low enough that little or no solids resting in the system are displaced by the feed.
6. Continue injection until the concentration in the product stream is approximately equal to the concentration in the reject stream (with clear flow meters, the distinctive green color of aqueous chlorine dioxide can be observed). Verify product stream and reject stream concentrations are approximately the same using *Selective Micro*<sup>®</sup> Chlorine Dioxide Test Strips (High Range).
7. Discontinue injection once concentrations become nearly equal.
8. Allow a minimum 20-minute static soak. If the system were known to have had a high level of biological contamination, use a 60-minute soak and inject additional chlorine dioxide (as above) about 30 minutes into the soaking period. Re-verify approximate equality of product and reject stream concentrations, as above (instruction number 7).
9. After appropriate soak time, flush the solution from the RO or UF module:
  - a. Drain (remove) chlorine dioxide solution from break tanks or other holding tanks in the system.
  - b. Replace the chlorine dioxide solution with potable water.
  - c. Monitor the product and reject streams for color until both appear to be clear.
  - d. Check the streams using *Selective Micro*<sup>®</sup> Chlorine Dioxide Test Strips (Low Range) until both streams register concentrations of 1 ppm or lower.
  - e. When both streams confirm at concentrations at or below 1 ppm, discontinue flush.
10. Restore system to the operating mode.
11. Dispose of package and spent envelope according to instructions on package label. Do not reuse solution.

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## DEODORIZATION APPLICATIONS

**This product can be used to in the treatment of strong odors in confined spaces.**

### **A. Deodorization of animal holding rooms, sick rooms, morgues, and work rooms.**

1. Activate *Selectrocide*<sup>®</sup> 2L500 [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBER* 100] [*Selectrocide*<sup>®</sup>Pouch 100MG] according to “Directions for Use” on the pouch [container] label.
2. Thoroughly clean all surfaces before treatment.

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3. **Deodorization Applications.** For deodorization applications, prepare a 100 ppm solution in accordance with instructions above **OR** use the undiluted contents of the activated *Selectrocide*<sup>®</sup> 2L500 pouch [container] with a 1:5 dilution device (one part activated solution to four parts water). [Prepare a 100 ppm solution in accordance with the instructions above **OR** use the undiluted contents of the activated [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBER* 100].] [Prepare a 100 ppm solution in accordance with instructions above by adding 1 liter of water to the *Selectrocide*<sup>®</sup>Pouch 100MG.]
4. Spray the solution onto walls, ceilings, floors, and other hard, non-porous surfaces until surfaces are lightly damp. For spraying applications, wear a NIOSH/MSHA-approved respirator appropriate for use with chlorine dioxide.
5. Allow treated surfaces to air dry and then ventilate the area. Do not reuse solution. Do not rinse treated surfaces.
6. Dispose of package(s) and spent envelope(s) according to instructions on package label.

## **B. Deodorization of restrooms/bathrooms, refuse containers, diaper pails, and storage lockers.**

1. Activate *Selectrocide*<sup>®</sup> 2L500 [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBER* 100] [*Selectrocide*<sup>®</sup>Pouch 100MG] according to “Directions for Use” on the pouch [container] label.
2. Thoroughly clean all surfaces before treatment.
3. **Deodorization Applications.** For deodorization applications, prepare a 50 ppm solution in accordance with the directions above **OR** use the undiluted contents of the activated *Selectrocide*<sup>®</sup> 2L500 solution with a 1:10 dilution device (one part activated solution to nine parts water).] [Prepare a 50 ppm solution in accordance with the instructions above **OR** use the undiluted contents of the activated [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBER* 100] solution with a 1:1 dilution device (one part activated solution to 1 part water).] [Prepare a 50 ppm solution in accordance with the instructions above **OR** use the undiluted contents of the activated *Selectrocide*<sup>®</sup>Pouch 100MG.]
4. Spray the solution onto walls, ceilings, floors, and other hard, non-porous surfaces until surfaces are lightly damp. For spraying applications, wear a NIOSH/MSHA-approved respirator appropriate for use with chlorine dioxide.
5. Allow treated surfaces to air dry and then ventilate the area. Do not reuse solution. Do not rinse treated surfaces.
6. Dispose of package(s) and spent envelope(s) according to instructions on package label.

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## **OIL AND GAS INDUSTRY APPLICATIONS (NOT FOR USE IN CALIFORNIA)**

**This product can be used in the deodorizing treatment of water used in the hydro testing of pipelines and vessels, pipeline pigging and scraping operations, and treatment of drilling, packer, completion, work over and fracturing fluids.**

### **A. For deodorizing treatment of water used in the hydro testing of pipelines and vessels:**

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1. Activate *Selectrocide*<sup>®</sup> 2L500 according to "Directions for Use" on product label.
2. Using a dosing pump, add activated *Selectrocide*<sup>®</sup> 2L500 until hydro testing water reaches a concentration of 100 ppm (required concentration levels vary according to site-specific conditions—monitor the microbial content of the water and increase or decrease the addition rate of the activated solution as needed).
3. Dispose of package(s) and spent envelope(s) according to instructions on package label. Do not reuse.

#### **B. For cleaning use in pipeline pigging and scraping operations:**

1. Activate *Selectrocide*<sup>®</sup> 2L500 according to "Directions for Use" on product label.
2. Add activated *Selectrocide*<sup>®</sup> 2L500 via a dosing pump to a slug of water immediately following the scraper. Ideally, this water volume can be kept to a minimum and contained between the scraper and a trailing pig.
3. Add activated solution until the water at the discharge point or pig trap reaches a concentration of 100 ppm chlorine dioxide (required concentration levels vary according to site-specific conditions—monitor the microbial content of the water and increase or decrease the addition rate of the activated solution as needed).
4. Dispose of package(s) and spent envelope(s) according to instructions on package label. Do not reuse.

#### **C. For deodorizing treatment of drilling, packer, completion, work over and fracturing fluids:**

1. Activate *Selectrocide*<sup>®</sup> 2L500 according to "Directions for Use" on product label.
2. Prepare a 100 ppm solution of activated *Selectrocide*<sup>®</sup> 2L500 or use the undiluted contents of the activated *Selectrocide*<sup>®</sup> 2L500 pouch [container] with a 1:5 dilution device (one part activated solution to 4 activated *Selectrocide*<sup>®</sup> 2L500. Add activated *Selectrocide*<sup>®</sup> 2L500 at a point where uniform mixing of the fluids and the activated solution will occur.
3. Dispose of package(s) and spent envelope(s) according to instructions on package label. Do not reuse.

#### **D. Deodorizing Control in Oil Wells and Petroleum Systems**

Chlorine Dioxide is effective in the remediation of bacteria and sulfide contamination commonly found in oil field production, injection and disposal fluids. The required dosages will vary with process conditions. Chlorine dioxide may be applied either continuously or intermittently into oil well production water as it is separated from the oil or before it is injected into the well. For continuous feeds, chlorine dioxide may be applied at dosages slightly higher than sulfide's oxidative demand as determined by a demand study. For intermittent treatment, chlorine dioxide should be applied at shock dosages from 100-3000 ppm.

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## **VEHICULAR APPLICATIONS**

**This product can be used by trained professionals in the deodorizing treatment of vehicle interiors, water used in the washing of vehicles, and transportation, loading, hauling equipment, and other heavy machinery.**

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### **A. Deodorizing treatment of vehicle interiors.**

1. Activate *Selectrocide*<sup>®</sup> 2L500 [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBER 100*] [*Selectrocide*<sup>®</sup>Pouch 100MG] according to “Directions for Use” on the pouch [container] label.
2. Thoroughly clean all surfaces before treatment.  
Deodorization Applications. For deodorization applications, prepare a 100 ppm solution in accordance with instructions above **OR** use the undiluted contents of the activated *Selectrocide*<sup>®</sup> 2L500 pouch [container] with a 1:5 dilution device (one part activated solution to four parts water). [Prepare a 100 ppm solution in accordance with the instructions above OR use the undiluted contents of the activated [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBER 100*].][Prepare a 100 ppm solution in accordance with instructions above by adding 1 liter of water to the *Selectrocide*<sup>®</sup>Pouch 100MG.]
3. Spray the solution onto walls, ceilings, floors, and other hard, non-porous surfaces until surfaces are lightly damp. For spraying applications, wear a NIOSH/MSHA-approved respirator appropriate for use with chlorine dioxide.
4. Allow treated surfaces to air dry and then ventilate the vehicle. Do not reuse solution. Do not rinse treated surfaces.
5. Dispose of package(s) and spent envelope(s) according to instructions on package label.

### **B. Deodorizing treatment of vehicle wash water.**

1. Activate *Selectrocide*<sup>®</sup> 2L500 [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBER 100*] [*Selectrocide*<sup>®</sup>Pouch 100MG] according to “Directions for Use” on the pouch [container] label.
2. Thoroughly clean all surfaces before treatment.
3. Deodorizer Applications. For deodorizing applications, prepare a 100 ppm solution in accordance with instructions above **OR** use the undiluted contents of the activated *Selectrocide*<sup>®</sup> 2L500 pouch [container] with a 1:5 dilution device (one part activated solution to four parts water). [Prepare a 100 ppm solution in accordance with the instructions above OR use the undiluted contents of the activated [Activate *Selectrocide*<sup>®</sup> 2L500 [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBER 100*] [*Selectrocide*<sup>®</sup>Pouch 100MG] according to “Directions for Use” on the pouch [container] label.
4. Allow treated surfaces to air dry and then ventilate the vehicle. Do not reuse solution. Do not rinse.
5. Dispose of package(s) and spent envelope(s) according to instructions on package label.

### **C. Deodorizing treatment of transportation, loading, and hauling equipment:**

1. Activate *Selectrocide*<sup>®</sup> 2L500 [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBER 100*] [*Selectrocide*<sup>®</sup>Pouch 100MG] according to “Directions for Use” on the pouch [container] label.
2. Scrub hard, nonporous surfaces with soap or other detergent until visible filth is removed. Rinse hard, nonporous surfaces with potable water.
3. Deodorizer and General Cleaning Applications. For deodorizing and general cleaning applications, prepare a 100 ppm solution in accordance with instructions above **OR** use the undiluted contents of the activated *Selectrocide*<sup>®</sup> 2L500 pouch [container] with a 1:5 dilution device (one part activated solution to four parts water). [Prepare a 100 ppm solution in accordance with the instructions above OR use the undiluted contents of the activated [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBER 100*].] [Prepare a 100 ppm solution in accordance with instructions above by adding 1 liter of water to the *Selectrocide*<sup>®</sup>Pouch 100MG.]

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4. Spray all hard, nonporous vehicle surfaces thoroughly. When applying the solution using a high-pressure sprayer, wear a NIOSH/MSHA-approved respirator appropriate for use with chlorine dioxide. All surfaces must be visibly wet for at least ten (10) minutes. After treating, allow surfaces or equipment to air dry.
5. Dispose of package(s) and spent envelope(s) according to instructions on package label. Do not reuse solution. Do not rinse treated surfaces.

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## DEODORIZING TREATMENT OF VENTLATION SYSTEMS

**This product can be used for deodorizing applications during the cleaning of ventilation systems.**

Prior to inspecting, cleaning, treating or working on a ventilation system or its components, the system must be turned off or disconnected from any part of the system not isolated. Mechanically clean, vacuum, or blow free of dirt, dust, mold, and debris all duct work using a commercial duct cleaning system or service prior to treatment. The air ducts to be treated must be mechanically sound and free of air leaks.

1. Activate *Selectrocide*<sup>®</sup> 2L500 [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBER* 100] [*Selectrocide*<sup>®</sup>Pouch 100MG] according to “Directions for Use” on the pouch [container] label.
2. Prepare a 20 ppm solution in accordance with instructions above OR use the undiluted contents of the activated [[*Selectrocide*<sup>®</sup> 2L500] [*SelectroFresh* 2L500 Food Processing]] [[*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBER* 100]] [*Selectrocide*<sup>®</sup>Pouch 100MG] pouch [container] with a [1:25] [1:5] [1:3.5] dilution device (one part activated solution to [24] [4] [2.5] parts water).
3. Spray solution on all hard, nonporous surfaces in vents or ducts. Allow surfaces to dry for at least thirty minutes (or longer if possible). For all spraying applications, wear a NIOSH/MSHA-approved respirator appropriate for use with chlorine dioxide
4. After treating, allow surfaces or equipment to air dry. Do not reuse solution. Do not rinse treated surfaces.
5. Dispose of package(s) and spent envelope(s) according to instructions on package label.

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## TO CONTROL THE BUILDUP OF SLIME AND ODOR-CAUSING BACTERIA IN BOILER FEED WATERS

1. Activate *Selectrocide*<sup>®</sup> 2L500 [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBER* 100] [*Selectrocide*<sup>®</sup>Pouch 100MG] according to “Directions for Use” on the pouch [container] label
2. Prepare a 5 ppm solution in accordance with instructions above OR use the undiluted contents of the activated *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh* 2L500 Food Processing] pouch [container] with a 1:100 dilution device (one part activated solution to 99 parts water). [Prepare a 5 ppm solution in accordance with instructions above OR use the undiluted contents of the activated [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBER* 100] pouch with a 1:20 dilution device (one part activated solution to

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- 19 parts water).] [Prepare a 5 ppm solution in accordance with instructions above OR use the undiluted contents of the activated *Selectroicide®Pouch 100MG* pouch [container] with a 1:10 dilution device (one part activated solution to 9 parts water).] Feed water should be treated at a rate of 5 ppm available ClO<sub>2</sub> and may be injected or batch-loaded. Feed water storage tanks should be sufficiently sealed to prevent outside contamination and direct sunlight.
3. Spray solution on all hard, nonporous surfaces in vents or ducts. Allow surfaces to dry for at least thirty minutes (or longer if possible). For all spraying applications, wear a NIOSH/MSHA-approved respirator appropriate for use with chlorine dioxide,
  4. After treating, allow surfaces or equipment to air dry. Do not reuse solution. Do not rinse treated surfaces.
  5. Dispose of package(s) and spent envelope(s) according to instructions on package label.

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## USE IN GLOVE DIPS AND SHOE BATHS (NOT FOR USE IN CALIFORNIA)

**This product can be used to prepare glove dips and shoe/boot baths used for sanitary measures.**

### A. Preparing glove dips:

1. Activate *Selectroicide® 2L500* [*Selectroicide® Pouch 200MG*] [*CLO2BBER 100*] [*Selectroicide®Pouch 100MG*] according to “Directions for Use” on the pouch [container] label.
2. Prepare a 5 ppm solution in accordance with instructions above OR use the undiluted contents of the activated *Selectroicide® 2L500* pouch [container] with a 1:100 dilution device (one part activated solution to 99 parts water). [Prepare a 5 ppm solution in accordance with instructions above OR use the undiluted contents of the activated [*Selectroicide® Pouch 200MG*] [*CLO2BBER 100*] [*Selectroicide®Pouch 100MG*] pouch with a [1:20] [1:10] dilution device (one part activated solution to [19] [9] parts water).]
3. Dispose of package(s) and spent envelope(s) according to instructions on package label.
4. Store solution in open container. Remove visible filth from gloves. Dip gloves in solution. Change solution daily or when solution appears soiled.

### B. Preparing show bath:

1. Activate *Selectroicide® 2L500* [*Selectroicide® Pouch 200MG*] [*CLO2BBER 100*] [*Selectroicide®Pouch 100MG*] according to “Directions for Use” on the pouch [container] label.
2. Prepare a 100 ppm solution in accordance with instructions above **OR** use the undiluted contents of the activated *Selectroicide® 2L500* pouch [container] with a 1:5 dilution device (one part activated solution to four parts water). [Prepare a 100 ppm solution in accordance with the instructions above OR use the undiluted contents of the activated [*Selectroicide® Pouch 200MG*] [*CLO2BBER 100*].] [Prepare a 100 ppm solution in accordance with instructions above by adding 1 liter of water to the *Selectroicide®Pouch 100MG*.]
3. Dispose of package(s) and spent envelope(s) according to instructions on package label.
4. Place solution on ground in open container. Remove visible filth from shoes. Dip shoes in solution. Change solution daily or when solution appears soiled.

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## DEODORIZING APPLICATIONS IN HUMIDIFIERS

**This product can be used to treat humidifier system water tanks.**

Prior to treatment, completely clean and rinse all tanks, tunnels, conveyor chains, heat exchangers, heat exchange towers, lines, spray bars and nozzles using potable water.

1. Activate *Selectroicide*<sup>®</sup> 2L500 [*Selectroicide*<sup>®</sup> Pouch 200MG] [*CLO2BBER* 100] [*Selectroicide*<sup>®</sup>Pouch 100MG] according to “Directions for Use” on the pouch [container] label.
2. Empty humidifier water tank and remove filth with a cloth or sponge. Rinse tank with potable water.
3. Prepare a 100 ppm solution in accordance with instructions above **OR** use the undiluted contents of the activated *Selectroicide*<sup>®</sup> 2L500 pouch [container] with a 1:5 dilution device (one part activated solution to four parts water). [Prepare a 100 ppm solution in accordance with the instructions above **OR** use the undiluted contents of the activated [*Selectroicide*<sup>®</sup> Pouch 200MG] [*CLO2BBER* 100].] [Prepare a 100 ppm solution in accordance with instructions above by adding 1 liter of water to the *Selectroicide*<sup>®</sup>Pouch 100MG.]
4. Dip parts in activated *Selectroicide*<sup>®</sup> 2L500 solution. Do not rinse treated parts. Allow treated surfaces to air dry. Do not reuse solution. Do not rinse treated surfaces.
5. Using a dosing pump, cycle 50 ppm (50 mg/L) solution of activated *Selectroicide*<sup>®</sup> 2L500 through pipeline or bulk tank immediately before milking. Circulate solution of activated *Selectroicide*<sup>®</sup> 2L500 for 2-3 minutes. Ensure that the temperature of the activated *Selectroicide*<sup>®</sup> 2L500 does not fall below 100°F.
6. Dispose of package(s) and spent envelope(s) according to instructions on package label.

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## Potable Water Treatment

Chlorine Dioxide is used as an oxidant in drinking water treatment. The required dosages will vary with source water conditions and the degree of contamination present. For most municipal and public potable water systems, a chlorine dioxide residual of up to 0.8 ppm is sufficient to provide adequate treatment. Residual disinfectant and disinfection byproducts must be monitored as required by the National Primary Drinking Water Regulations (40 CFR Part 141) and state drinking water standards.

## Wastewater Treatment

Chlorine dioxide is effective as an oxidant in wastewater treatment. The required dosages will vary with water conditions and the degree of contamination present. For most municipal and other wastewater systems, a chlorine dioxide residual concentration of up to 5 ppm is sufficient to provide adequate treatment. For sulfide odor control, between pH 5-9, a minimum of 5.2 ppm (wt) of chlorine dioxide should be applied to oxidize 1 ppm of sulfide (measured as sulfide ion). For phenol destruction, at pH less than 8, 1.5 ppm chlorine dioxide will oxidize 1 -ppm phenol; at pH greater than 10, 3.3-ppm chlorine dioxide will oxidize 1 ppm phenol.

## Bacterial Slime Control in Paper Mills (Not For Use In California)

Chlorine Dioxide generated from sodium chlorite is effective for use in controlling microbiological growth in white paper mill systems. The required dosages will vary with the degree of microbiological and

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process contamination present. Depending on the specific requirements of the system, sodium chlorite should be applied continuously or intermittently through a chlorine dioxide generating system to achieve a chlorine dioxide residual concentration between 0.1 and 5.0 ppm. Intermittent treatments should be repeated as often as necessary to maintain control.

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## PLANT AND CROP APPLICATIONS

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### TO EXTEND SHELF-LIFE AND FRESHNESS OF FRUITS AND VEGETABLES IN FOOD PROCESSING FACILITIES

**THIS PRODUCT WILL REDUCE CONCENTRATIONS OF SPOILAGE MICROBES ON RAW AGRICULTURAL COMMODITIES (RACS) INTENDED FOR COMMERCIAL FOOD PROCESSING.**

1. Activate *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] according to “Directions for Use” on the pouch [container] label.
2. Wash and thoroughly rinse fruits and vegetables with clean, potable water.
3. Prepare a 5 ppm solution of activated *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] **OR** use the 500 ppm solution with a 1:100 dilution device (one part 500 ppm solution to 99 parts water).
4. Apply to fruits and vegetables by: either immersing/dipping in a tank of 5 ppm solution for one minute **OR** using an application-specific sprayer (the industry standard fan or cone spray nozzle pattern) to cover all surfaces evenly with a 5 ppm spray. Replenish immersion solution at the rate of depletion; verify 5 ppm concentration using *Selective Micro*<sup>®</sup> *Chlorine Dioxide Test Strips*. Empty and wash immersion tanks with every shift change.
5. Follow application to fruits and vegetables with a potable water rinse or canning, blanching, or cooking.
6. Dispose of pouch [container] according to instructions on pouch [container] label.

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## HORTICULTURAL ALGAEICIDE, AND SLIME REMOVER/INHIBITER

**Treats/Controls/Inhibits: Algae (*Phormidium boneri*) and Bacteria (*Penicillium digitatum*, *Botrytis sp.*, *Fusarium solani*, *Pythium aphanidermatum*, *Pythium irregulare*, *Fusarium oxysporum f. sp. basilicum* (*Fob*))**

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**NOTE: Do not use at concentrations higher than those recommended for each application.** When applied directly to plants, seeds, cuttings or flowers as directed, *Selectrocide*<sup>®</sup> 2L500 does not because adverse cosmetic effects, as testing has demonstrated. However, testing has not been performed on EVERY plant species, and users are advised to spot-test *Selectrocide*<sup>®</sup> 2L500 before applying it widely.

Active solution may be irritating if breathed. If applying solution inside greenhouse or enclosed area using a high-pressure sprayer, wear a NIOSH/MSHA-approved respirator appropriate for chlorine dioxide: after treatment, ventilate greenhouse before reentering.

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**As a dip to control and suppress bacteria (*Erwinia chrysanthemi*), algae (such as *Phormidium boneri*) and bacteria (such as *Penicillium digitatum*, *Botrytis sp.*, and *Fusarium solani*) on rooted and unrooted cuttings and cut flowers:**

1. Activate *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] [*Selectrocide*<sup>®</sup> Pouch 200MG] [CLO2BBBER 100] [*Selectrocide*<sup>®</sup>Pouch 100MG] according to “Directions for Use” on pouch [container] label.
2. Prepare a 5 ppm solution in accordance with instructions above OR use the undiluted contents of the activated *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] pouch with a 1:100 dilution device (one part activated solution to 99 parts water). [Prepare a 5 ppm solution in accordance with instructions above OR use the undiluted contents of the activated [*Selectrocide*<sup>®</sup> Pouch 200MG] [CLO2BBBER 100]] [*Selectrocide*<sup>®</sup>Pouch 100MG] pouch with a [1:20] [1:10] dilution device (one part activated solution to [19] [9] parts water).]
3. Briefly dip cuttings or cut flowers and ensure they remain visibly wet with solution for at least one minute.
4. Dispose of pouch [container] according to instructions on pouch [container] label.

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**As a dip or drench to control and suppress bacteria (*Erwinia chrysanthemi*), algae (*Phormidium boneri*) and bacteria(*Penicillium digitatum*, *Botrytis sp.*, *Fusarium solani*, *Pythium aphanidermatum*, *Pythium irregulare*, *Fusarium oxysporum f. sp. Basilicum (Fob)*) in seed-bed soil and planting cubes:**

1. Activate *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] [*Selectrocide*<sup>®</sup> Pouch 200MG] [CLO2BBBER 100] [*Selectrocide*<sup>®</sup>Pouch 100MG] according to “Directions for Use” on the pouch [container] label.
2. Prepare a 5 ppm solution in accordance with instructions above OR use the undiluted contents of the activated *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] pouch with a 1:100 dilution device (one part activated solution to 99 parts water). [Prepare a 5 ppm solution in accordance with instructions above OR use the undiluted contents of the activated [*Selectrocide*<sup>®</sup> Pouch 200MG] [CLO2BBBER 100] [*Selectrocide*<sup>®</sup>Pouch 100MG] pouch [container] with a [1:20] [1:10] dilution device (one part activated solution to [19] [9] parts water).]
3. Immerse or drench seed-bed soil or planting cubes and allow to remain visibly wet with solution for ten (10) minutes.
4. Dispose of pouch [container] according to instructions on pouch [container] label.

Soil or planting cubes can be seeded or planted immediately after treatment.

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**[FOR CONTINUOUS TREATMENT TO SUPPRESS BACTERIA AND INHIBIT ALGAE, bioslime, SLIME, and bacteria AT A CONCENTRATION OF 3.0 PPM]**

1. [Activate *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] according to "Directions for Use" on product label.
2. Using a dosing pump, add activated *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] to watering system until water reaches a concentration of 3.0 ppm (required concentration levels vary according to site-specific conditions—monitor the microbial content of the water and increase or decrease the addition rate of the activated solution as needed); [higher chlorine dioxide injection rates, such as 3.0ppm can ensure chlorine dioxide residual of up to 0.8 ppm is sufficient to provide adequate treatment]. Residual disinfectant and disinfection byproducts must be monitored as required by the National Primary Drinking Water Regulations (40 CFR Part 141) and state drinking water standards.
3. Dispose of package(s) and spent envelope(s) according to instructions on package label. Do not reuse.

NOTE: Use ultra-low-range *Selective Micro*<sup>®</sup> *Chlorine Dioxide Test Strips* to verify concentration at downstream production points. Organic loads vary across water supplies, and will influence injection level necessary to ensure 3.0 ppm concentrations at emitter hoses, mist nozzles, and drip tubes.]

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**FOR CONTINUOUS TREATMENT TO SUPPRESS BACTERIA AND INHIBIT ALGAE, bioslime, SLIME, and bacteria AT A CONCENTRATION OF 0.8 PPM**

1. Activate *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] according to "Directions for Use" on product label.
2. Using a dosing pump, add activated *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] to watering system until water reaches a concentration of 8.0 ppm (required concentration levels vary according to site-specific conditions—monitor the microbial content of the water and increase or decrease the addition rate of the activated solution as needed).
3. Dispose of package(s) and spent envelope(s) according to instructions on package label. Do not reuse.

NOTE: Use ultra-low-range *Selective Micro*<sup>®</sup> *Chlorine Dioxide Test Strips* to verify concentration at downstream production points. Organic loads vary across water supplies, and will influence injection level necessary to ensure 0.8ppm concentrations at emitter hoses, mist nozzles, and drip tubes.

**For removing slime and retarding its reemergence; for deodorizing or treatment applications involving algae (*Phormidium boneri*) and bacteria (*Penicillium digitatum*, *Botrytis sp.*, *Fusarium solani*, *Pythium aphanidermatum*, *Pythium irregulare*, *Fusarium oxysporum f. sp. Basilicum (Fob)*); and for continuous treatment to inhibit their re-establishment in irrigation systems, flood floors, flooded benches, misting systems, humidification systems, recycled water systems and capillary mats:**

1. Activate *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] [*Selectrocide*<sup>®</sup> *Pouch 200MG*] [*CLO2BBER 100*] [*Selectrocide*<sup>®</sup> *Pouch 100MG*] according to "Directions for Use" on the pouch [container] label.
2. Pre-clean all surfaces prior to application of disinfectant solution. Sweep and remove all plant debris. Use power sprayer to wash all surfaces to remove loose dirt.
3. Prepare solutions in indicated concentrations and ensure surfaces are wetted and remain visibly wet for the times or are applied continuously as noted below. Dispose of pouch [container] according to instructions on pouch [container] label.

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**AS AN INITIAL OR REMEDIAL TREATMENT TO DISINFECT WATER HOLDING TANKS AND LINES (CLEAN-IN-PLACE APPLICATION)**

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4. Flush tank thoroughly with clean water.
5. Prepare a 100 ppm solution in accordance with the instructions above **OR** use the undiluted contents of the activated *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] solution with a 1:5 dilution device (one part activated solution to four parts water).
6. Fill tank completely. Run solution through irrigation/transfer lines and appliances until green solution appears at the outlets. Top-off tank with solution. Circulate or let stand in tank and lines for at least ten (10) minutes.
7. Drain tanks and lines, flush with clean water, and resume normal operation.

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**FOR CONTINUOUS TREATMENT TO INHIBIT THE RE-ESTABLISHMENT OF SLIME, ALGAE, AND bacteria**

4. Dilute the 500 ppm solution to 0.25 ppm using a 1:2,000 dilution device **OR** by adding one part 500 ppm solution to 1,999 parts water.
5. Use the 0.25 ppm solution to operate the water system following normal application procedures.

NOTE: Use ultra-low-range *Selective Micro*<sup>®</sup> *Chlorine Dioxide Test Strips* to verify concentration at downstream production points. Organic loads vary across water supplies, and will influence injection level necessary to ensure 0.25 ppm concentrations at emitter hoses, mist nozzles, and drip tubes.

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**[FOR CONTINUOUS TREATMENT TO INHIBIT THE RE-ESTABLISHMENT OF SLIME, ALGAE, and bacteria AT A CONCENTRATION OF 3.0 PPM]**

1. [Activate *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] according to "Directions for Use" on product label.
2. Using a dosing pump, add activated *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] to water system until water reaches a concentration of 3.0 ppm (required concentration levels vary according to site-specific conditions—monitor the microbial content of the water and increase or decrease the addition rate of the activated solution as needed); [higher chlorine dioxide injection rates, such as 3.0ppm can ensure chlorine dioxide residual of up to 0.8 ppm is sufficient to provide adequate treatment]. Residual disinfectant and disinfection byproducts must be monitored as required by the National Primary Drinking Water Regulations (40 CFR Part 141) and state drinking water standards.
3. Dispose of package(s) and spent envelope(s) according to instructions on package label. Do not reuse.

NOTE: Use ultra-low-range *Selective Micro*<sup>®</sup> *Chlorine Dioxide Test Strips* to verify concentration at downstream production points. Organic loads vary across water supplies, and will influence injection level necessary to ensure 3.0 ppm concentrations at emitter hoses, mist nozzles, and drip tubes.]

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**FOR CONTINUOUS TREATMENT TO INHIBIT THE RE-ESTABLISHMENT OF SLIME, ALGAE, and bacteria AT A CONCENTRATION OF 0.8 PPM**

1. Activate *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] according to "Directions for Use" on product label.
2. Using a dosing pump, add activated *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] to water system water reaches a concentration of 0.8 ppm (required concentration levels vary according to site-specific conditions—monitor the microbial content of the water and increase or decrease the addition rate of the activated solution as needed).
3. Dispose of package(s) and spent envelope(s) according to instructions on package label. Do not reuse.

NOTE: Use ultra-low-range *Selective Micro*<sup>®</sup> *Chlorine Dioxide Test Strips* to verify concentration at downstream production points. Organic loads vary across water supplies, and will influence injection level necessary to ensure 0.8 ppm concentrations at emitter hoses, mist nozzles, and drip tubes.

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**As an algaecide and bactericide for treating, preventing, suppressing and controlling horticultural diseases on hard, non-porous surfaces in commercial greenhouses, garden centers and nurseries:**

1. Activate *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] [*Selectrocide*<sup>®</sup> Pouch 200MG] [CLO2BBER 100] [*Selectrocide*<sup>®</sup>Pouch 100MG] according to “Directions for Use” on the pouch [container] label.
2. Pre-clean all non-plant surfaces prior to application of solution. Sweep and remove all plant debris. Use power sprayer to wash all surfaces to remove loose dirt.
3. Prepare solutions in indicated concentrations and ensure all surfaces are wetted and remain visibly wet for the times noted below.
4. Dispose of pouch [container] according to instructions on pouch [container] label.

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**AS AN INITIAL OR REMEDIAL TREATMENT TO KILL ALGAE AND BACTERIA ON HARD NON-POROUS SURFACES ON EQUIPMENT, GREENHOUSE STRUCTURES, GLAZING, PLASTIC, BENCHES, WALKWAYS, FLOORS, WALLS, FAN BLADES, VENTILATION DUCTS, WATERING SYSTEMS, COOLERS AND STORAGE ROOMS:**

1. Activate *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] [*Selectrocide*<sup>®</sup> Pouch 200MG] [CLO2BBER 100] [*Selectrocide*<sup>®</sup>Pouch 100MG] according to “Directions for Use” on the pouch label.
2. Prepare a 5 ppm solution in accordance with instructions above OR use the undiluted contents of the activated *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] pouch with a 1:100 dilution device (one part activated solution to 99 parts water). [Prepare a 5 ppm solution in accordance with instructions above OR use the undiluted contents of the activated [[*Selectrocide*<sup>®</sup> Pouch 200MG] [CLO2BBER 100]] [*Selectrocide*<sup>®</sup>Pouch 100MG] pouch [container] with a [1:20] [1:10] dilution device (one part activated solution to [19] [9] parts water).]
3. Apply solution with mop, sponge or sprayer. When applying these solutions using a high-pressure sprayer, wear a NIOSH/MSHA-approved respirator appropriate for chlorine dioxide.
4. Visibly wet all surfaces and ensure the surfaces remain visibly wet for at least one hour.
5. Dispose of pouch [container] according to instructions on pouch [container] label.

Note: Heavy growths of algae or bacteria may require scrubbing to remove dead growth.

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**AS A WEEKLY PREVENTATIVE TREATMENT TO KILL, CONTROL AND SUPPRESS BACTERIA AND CONTROL AND SUPPRESS ALGAE ON HARD NON-POROUS SURFACES ON EQUIPMENT, GREENHOUSE STRUCTURES, GLAZING, PLASTIC, BENCHES, WALKWAYS, FLOORS, WALLS, FAN BLADES, VENTILATION DUCTS, WATERING SYSTEMS, COOLERS AND STORAGE ROOMS:**

1. Activate *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] [*Selectrocide*<sup>®</sup> Pouch 200MG] [CLO2BBER 100] [*Selectrocide*<sup>®</sup>Pouch 100MG] according to “Directions for Use” on the pouch [container] label.
2. Prepare a 5 ppm solution in accordance with instructions above OR use the undiluted contents of the activated *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] pouch with a 1:100 dilution device (one part activated solution to 99 parts water). [Prepare a 5 ppm solution in accordance with instructions above OR use the undiluted contents of the activated [[*Selectrocide*<sup>®</sup> Pouch 200MG] [CLO2BBER 100]] [*Selectrocide*<sup>®</sup>Pouch 100MG] pouch [container] with a [1:20] [1:10] dilution device (one part activated solution to [19] [9] parts water).]
3. Apply solution with mop, sponge or sprayer. When applying these solutions using a high-pressure sprayer, wear a NIOSH/MSHA-approved respirator appropriate for chlorine dioxide. Visibly wet all surfaces and ensure the surfaces remain visibly wet for at least one hour (kill/cidal) and at least one minute (suppression).
4. Dispose of pouch [container] according to instructions on pouch [container] label.

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**As a dip to control and suppress bacteria (*Erwinia chrysanthemi*) on cuttings and cut flowers:**

1. Activate *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] [*Selectrocide*<sup>®</sup> Pouch 200MG] [CLO2BBBER 100] [*Selectrocide*<sup>®</sup>Pouch 100MG] according to “Directions for Use” on pouch label.
2. Prepare a 5 ppm solution in accordance with instructions above OR use the undiluted contents of the activated *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] pouch with a 1:100 dilution device (one part activated solution to 99 parts water). [Prepare a 5 ppm solution in accordance with instructions above OR use the undiluted contents of the activated [*Selectrocide*<sup>®</sup> Pouch 200MG] [CLO2BBBER 100] [*Selectrocide*<sup>®</sup>Pouch 100MG] pouch [container] with a [1:20] [1:10] dilution device (one part activated solution to [19][9] parts water).]
3. Briefly dip cuttings or cut flowers and ensure they remain visibly wet with solution for at least one minute.
4. Dispose of pouch [container] according to instructions on pouch [container] label.

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**To maintain freshness and extend shelf-life for cut flowers:**

1. Activate *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] [*Selectrocide*<sup>®</sup> Pouch 200MG] [CLO2BBBER 100] [*Selectrocide*<sup>®</sup>Pouch 100MG] according to “Directions for Use” on pouch [container] label.
2. Prepare a 5 ppm solution in accordance with instructions above OR use the undiluted contents of the activated *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] pouch [container] with a 1:100 dilution device (one part activated solution to 99 parts water). [Prepare a 5 ppm solution in accordance with instructions above OR use the undiluted contents of the activated [[*Selectrocide*<sup>®</sup> Pouch 200MG] [CLO2BBBER 100]] [*Selectrocide*<sup>®</sup>Pouch 100MG] pouch [container] with a [1:20] [1:10] dilution device (one part activated solution to [19] [9] parts water).]
3. Unbundle the flowers to preclude bunching, and place in vase on display or in cold storage in the 5 ppm solution of chlorine dioxide. Solution may include 2% sucrose.
4. Refresh solution every 24 hours.
5. Dispose of pouch [container] according to instructions on pouch [container] label.

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**As a drench or spray to control and suppress bacteria, algae and bacteria in commercial mushroom growing operations (pre- and post-casing):  
(Not For Use In California)**

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**PRE-CASING:**

1. Activate *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] according to “Directions for Use” on the package label.
2. Prepare a 0.8 ppm solution of *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] OR prepare a 500 ppm solution of *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] and add 0.20 ounces per gallon. Drench or spray mushroom beds until all mushrooms are visibly wet with solution. When applying these solutions using a sprayer, wear a NIOSH/MSHA-approved respirator appropriate for chlorine dioxide
3. Begin casing mushroom beds.
4. Dispose of package(s) and spent envelope(s) according to instructions on package label.

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**POST-CASING:**

1. Activate *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] according to “Directions for Use” on the package label.

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2. Prepare a 0.8 ppm solution of *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] OR prepare a 500 ppm solution of *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] and add 0.20 ounces per gallon. Drench or spray mushroom beds until all mushrooms are visibly wet with solution. When applying these solutions using a sprayer, wear a NIOSH/MSHA-approved respirator appropriate for chlorine dioxide.
3. Dispose of package(s) and spent envelope(s) according to instructions on package label.

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## APPLICATION IN HYDROPONIC SETTINGS

**Treats/Controls/Inhibits: Algae (*Phormidium boneri*) and Bacteria (*Penicillium digitatum*), [*Botrytis sp.*], [*Fusarium solani*], *Pythium aphanidermatum*, *Pythium irregulare*, *Fusarium oxysporum f. sp. basilicum* (*Fob*)).**

**NOTE: Do not use at concentrations higher than those recommended for each application.**

Active solution may be irritating if breathed. If applying in enclosed area or greenhouse using a high-pressure sprayer, wear a NIOSH/MSHA-approved respirator appropriate for chlorine dioxide: after treatment, ventilate sprayed area.

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**To control and suppress bacteria (*Erwinia chrysanthemi*), including algae (*Phormidium boneri*); bacteria (*Penicillium digitatum*, *Botrytis sp.*, *Fusarium solani*,] *Pythium aphanidermatum*, *Pythium irregulare*, *Fusarium oxysporum f. sp. Basilicum* (*Fob*)) on ornamentals, edibles in hydroponic gardens:**

1. Activate *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBBER 100*] [*Selectrocide*<sup>®</sup>Pouch 100MG] according to “Directions for Use” on pouch label.
2. Prepare a 5 ppm solution in accordance with instructions above OR use the undiluted contents of the activated *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] pouch with a 1:100 dilution device (one part activated solution to 99 parts water). [Prepare a 5 ppm solution in accordance with instructions above OR use the undiluted contents of the activated [[*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBBER 100*]] [*Selectrocide*<sup>®</sup>Pouch 100MG] pouch with a [1:20] [1:10] dilution device (one part activated solution to [19] [9] parts water).]
3. Immerse or ornamentals, edibles. Ensure crops are visibly wet with solution for ten (10) minutes.
4. Dispose of package and spent envelope according to instructions on package label.

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### AS A DIP, SPRAY, OR DRENCH AT A CONCENTRATION OF 5.0 PPM

1. Activate *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBBER 100*] [*Selectrocide*<sup>®</sup>Pouch 100MG] according to “Directions for Use” on pouch [container] label.

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2. Prepare a 5 ppm solution in accordance with instructions above OR use the undiluted contents of the activated *Selectroicide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] pouch with a 1:100 dilution device (one part activated solution to 99 parts water). [Prepare a 5 ppm solution in accordance with instructions above OR use the undiluted contents of the activated [*Selectroicide*<sup>®</sup> Pouch 200MG] [CLO2BBER 100] [*Selectroicide*<sup>®</sup>Pouch 100MG] pouch [container] with a [1:20] [1:10] dilution device (one part activated solution to [19] [9] parts water).]
3. Dispose of package(s) and spent envelope(s) according to instructions on package label.

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**[FOR CONTINUOUS TREATMENT TO SUPPRESS BACTERIA AND INHIBIT ALGAE, BIOSLIME, SLIME, AND BACTERIA AT A CONCENTRATION OF 3.0 PPM]**

1. [Activate *Selectroicide*<sup>®</sup>2L500 [*SelectroFresh 2L500 Food Processing*] according to "Directions for Use" on product label.
2. Using a dosing pump, add activated *Selectroicide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] to watering system until water reaches a concentration of 3.0 ppm (required concentration levels vary according to site-specific conditions—monitor the microbial content of the water and increase or decrease the addition rate of the activated solution as needed); [higher chlorine dioxide injection rates, such as 3.0ppm can ensure chlorine dioxide residual of up to 0.8 ppm is sufficient to provide treatment]. Residual disinfectant and disinfection byproducts must be monitored as required by the National Primary Drinking Water Regulations (40 CFR Part 141) and state drinking water standards.
3. Dispose of package(s) and spent envelope(s) according to instructions on package label. Do not reuse.

NOTE: Use ultra-low-range *Selective Micro*<sup>®</sup> *Chlorine Dioxide Test Strips* to verify concentration at downstream production points. Organic loads vary across water supplies, and will influence injection level necessary to ensure 3.0 ppm concentrations at emitter hoses, mist nozzles, and drip tubes.]

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**FOR CONTINUOUS TREATMENT TO SUPPRESS BACTERIA AND INHIBIT ALGAE, BIOSLIME, SLIME, AND BACTERIA AT A CONCENTRATION OF 0.8 PPM**

1. Activate *Selectroicide*<sup>®</sup>2L500 [*SelectroFresh 2L500 Food Processing*] according to "Directions for Use" on product label.
2. Using a dosing pump, add activated *Selectroicide*<sup>®</sup>2L500 [*SelectroFresh 2L500 Food Processing*] to watering system until water reaches a concentration of 0.8 ppm (required concentration levels vary according to site-specific conditions—monitor the microbial content of the water and increase or decrease the addition rate of the activated solution as needed).
3. Dispose of package(s) and spent envelope(s) according to instructions on package label. Do not reuse.

NOTE: Use ultra-low-range *Selective Micro*<sup>®</sup> *Chlorine Dioxide Test Strips* to verify concentration at downstream production points. Organic loads vary across water supplies, and will influence injection level necessary to ensure 0.8 ppm concentrations at emitter hoses, mist nozzles, and drip tubes.

**For removing slime and retarding its reemergence; for deodorizing treatment applications involving algae (*Phormidium boneri*) and bacteria [(*Penicillium digitatum*, *Botrytis sp.*, *Fusarium solani*,] *Pythium aphanidermatum*, *Pythium irregular*, *Fusarium oxysporum f. sp. Basilicum (Fob)*); and for continuous treatment to inhibit their re-establishment in irrigation systems, flood floors, flooded benches, misting systems, humidification systems, recycled water systems and capillary mats:**

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1. Activate *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] according to “Directions for Use” on package label.
2. Pre-clean all surfaces prior to application of disinfectant solution. Sweep and remove all plant debris. Use power sprayer to wash all surfaces to remove loose filth. Scrub surfaces using a suitable soap or detergent to ensure that no filth remains on surfaces.
3. Prepare solutions in concentrations indicated below and ensure surfaces are wetted and remain visibly wet for the times suggested above or are applied continuously as noted below.
4. Dispose of package(s) and spent envelope(s) according to instructions on package label.

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**AS AN INITIAL OR REMEDIAL TREATMENT TO DISINFECT WATER HOLDING TANKS AND IRRIGATION/TRANSFER LINES (CLEAN-IN-PLACE APPLICATION)**

1. Flush tank thoroughly with clean water. Activate *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] according to "Directions for Use" on package label.
2. Prepare a 100 ppm solution of activated *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] OR prepare a 500 ppm solution of activated *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] and use a 1:5 dilution device (one part 500 ppm solution to four parts water).
3. Fill tank completely. Run 100 ppm solution through irrigation/transfer lines and appliances until green solution appears at the outlets. Top-off tank with solution. Circulate or let stand in tank and lines for at least ten (10) minutes.
4. Drain tanks and lines, flush with clean water, and resume normal operation.

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**[FOR CONTINUOUS TREATMENT TO INHIBIT THE RE-ESTABLISHMENT OF SLIME, ALGAE, and BACTERIA AT A CONCENTRATION OF 3.0 PPM]**

1. [Activate *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] according to "Directions for Use" on product label.
2. Using a dosing pump, add activated *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] to water system until water reaches a concentration of 3.0 ppm (required concentration levels vary according to site-specific conditions—monitor the microbial content of the water and increase or decrease the addition rate of the activated solution as needed); [higher chlorine dioxide injection rates, such as 3.0ppm can ensure chlorine dioxide residual of up to 0.8 ppm is sufficient to provide treatment]. Residual disinfectant and disinfection byproducts must be monitored as required by the National Primary Drinking Water Regulations (40 CFR Part 141) and state drinking water standards.
3. Dispose of package(s) and spent envelope(s) according to instructions on package label. Do not reuse.

NOTE: Use ultra-low-range *Selective Micro*<sup>®</sup> *Chlorine Dioxide Test Strips* to verify concentration at downstream production points. Organic loads vary across water supplies, and will influence injection level necessary to ensure 3.0 ppm concentrations at emitter hoses, mist nozzles, and drip tubes.]

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**FOR CONTINUOUS TREATMENT TO INHIBIT THE RE-ESTABLISHMENT OF SLIME, ALGAE, AND BACTERIA AT A CONCENTRATION OF 0.8 PPM**

1. Activate *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] according to "Directions for Use" on product label.

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2. Using a dosing pump, add activated *Selectroicide*<sup>®</sup> 2L500 to watering system until water reaches a concentration of 0.8 ppm (required concentration levels vary according to site-specific conditions—monitor the microbial content of the water and increase or decrease the addition rate of the activated solution as needed).
3. Dispose of package(s) and spent envelope(s) according to instructions on package label. Do not reuse.

NOTE: Use ultra-low-range *Selective Micro*<sup>®</sup> *Chlorine Dioxide Test Strips* to verify concentration at downstream production points. Organic loads vary across water supplies, and will influence injection level necessary to ensure 0.8 ppm concentrations at emitter hoses, mist nozzles, and drip tubes.

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## To maintain freshness and extend shelf-life for cut ornamentals and edibles: (Not For Use In California)

1. Activate *Selectroicide*<sup>®</sup> 2L500 [*Selectroicide*<sup>®</sup> *Pouch* 200MG] [CLO2BBER 100] [*Selectroicide*<sup>®</sup>*Pouch* 100MG] according to “Directions for Use” on pouch [container] label.
2. Prepare a 5 ppm solution in accordance with instructions above OR use the undiluted contents of the activated *Selectroicide*<sup>®</sup> 2L500 [*SelectroFresh* 2L500 *Food Processing*] pouch [container] with a 1:100 dilution device (one part activated solution to 99 parts water). [Prepare a 5 ppm solution in accordance with instructions above OR use the undiluted contents of the activated [*Selectroicide*<sup>®</sup> *Pouch* 200MG] [CLO2BBER 100]] [*Selectroicide*<sup>®</sup>*Pouch* 100MG] pouch [container] with a [1:20] [1:10] dilution device (one part activated solution to [19] [9] parts water).]
3. Unbundle the crops to preclude bunching, and submerge crops in the 5 ppm solution or place the crops in cold storage in the 5 ppm solution of chlorine dioxide. Solution may include 2% sucrose.
4. Refresh solution every 24 hours.
5. Dispose of package and spent envelope according to instructions on package label.

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## PLANT AND CROP APPLICATIONS TO CONTROL THE BUILDUP OF SPOILAGE MICROBES IN PROCESS WATERS FOR FRUITS AND VEGETABLES AND ASSOCIATED TANKS, FLUMES, AND LINES

**This product will inhibit spoilage microbial growth in water used to process fruits and vegetables. Appropriate for small-volume applications only; use *Selectroicide*<sup>®</sup> G-Series products for normal- and large-volume process water applications.**

- NOTE: 1. Replacement and replenishment intervals will vary with microbial challenge presented by fruits and vegetables treated. Selective Micro Technologies recommends a beginning concentration of 5 ppm, with adjustments to ensure a residual concentration between 0.25 and 5 ppm depending on microbial challenge and operation-unique factors.
2. Apply chlorine dioxide solution continuously or intermittently to achieve a residual concentration level between 0.25 – 5.0 ppm.
  3. Regularly confirm concentration of process water using *Selective Micro*<sup>®</sup> *Chlorine Dioxide Test Strips* or other measurement means (e.g., Oxidation Reduction Potential [ORP] metering).

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- At regular intervals or before beginning a shift, clean tanks, flumes, and lines using normal procedures, and follow with potable water rinse. [In conditions of severe microbial accumulation (or when slime is visible), it is advisable to treat the thoroughly cleaned system with a treatment before returning the system to normal operation. See *Selectrocide*<sup>®</sup>'s "Sanitization and General Cleaning Applications for Water Lines and Tanks in Potable Water Systems" for recommendations on cleaning tanks that are contaminated severely.]
- Determine the number of *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] pouches [containers] necessary based on the capacity of the tank or system, anticipated replenishment/replacement cycle based on expected microbial loads, and specific application method (once-through or recycled). The optimal concentration necessary to ensure a residual concentration of between 0.25 and 5.0 ppm will vary across operations.

For "once-through" process designs, generate *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] directly to the desired end-concentration in the system's operating tank (recommended) OR generate stock 500 ppm external to the tank and meter the stock solution in adequate volume to raise the volumes of process water to the desired concentration via mechanical injection (recommended) or by batch-loading.

For "recycle" process designs, generate stock 500 ppm solution external to the tank and inject activated solution in sufficient volume to raise the process water to the desired concentration via mechanical injection (recommended) or by batch-loading.

Consult pages 1-2 of this Technical Bulletin for dilution instructions, or scale to application using the table below, which presents, as a starting point, the total volume of stock 5 ppm solution generated using multiple pouches [containers] of *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*]. Because the volume of 5 ppm solution achievable using the 2L500 is small, this product will be useful only for the smallest-volume applications. Use *Selectrocide*<sup>®</sup> G-Series products for normal- and large-volume process water applications.

**VOLUME OF 5 PPM SOLUTION USING  
SELECTROCIDE<sup>®</sup> 2L500 POUCHES [CONTAINERS]**

Number of <i>Selectrocide</i> <sup>®</sup> 2L500 Pouches [Containers]	Volume of Water Specified To Generate 500 ppm Stock Solution	Volume of 5 ppm Solution Created Using a Single <i>Selectrocide</i> <sup>®</sup> Pouch [Container]	
		Liters	Gallons <sup>1</sup>
1	2	200	55
2	4	400	105
3	6	600	160
4	8	800	210
5	10	1,000	265

<sup>1</sup> rounded to nearest 5 gallons

- Activate *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] according to "Directions for Use" on package label.
- Prepare a 5 ppm solution of activated *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] directly in accordance with instructions above OR prepare a 500 ppm solution with any of the G-series products and use a 1:100 dilution device (one part 500 ppm solution to 99 parts water) to achieve target concentration of 5 ppm.
- Verify concentration of process solution using *Selective Micro*<sup>®</sup> Chlorine Dioxide Test Strips or other appropriate means. Adjust concentration by adding additional water if the concentration is above 5 ppm or by adding additional concentrate if below 5 ppm (or below desired concentration between 0.25 and 5.0 ppm).

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nor followed in violation of applicable laws, regulations, rules, or insurance requirements.

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Technical Bulletin: 2L500 425-12445-011 (Revised 4-20)

6. Cover or enclose containers holding solution, and operate normally.
7. Check concentration at regular intervals using test strips or other means to ensure target concentration is maintained. Replenish solution as necessary to maintain target concentration.
8. At desired intervals, drain system, clean as necessary, and refill with freshly-activated solution.
9. Dispose of pouch [container] according to instructions on pouch [container] label.

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## PLANT AND CROP APPLICATIONS TO CONTROL SPOILAGE MICROBES IN AGRICULTURAL WATER

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### [FOR CONTINUOUS TREATMENT TO INHIBIT THE RE-ESTABLISHMENT OF SLIME, ALGAE, and BACTERIA AT A CONCENTRATION OF 3.0 PPM]

1. [Activate *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] according to "Directions for Use" on product label.
2. Using a dosing pump, add activated *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] to watering system until water reaches a concentration of 3.0 ppm (required concentration levels vary according to site-specific conditions—monitor the microbial content of the water and increase or decrease the addition rate of the activated solution as needed); [higher chlorine dioxide injection rates, such as 3.0ppm can ensure chlorine dioxide residual of up to 0.8 ppm is sufficient to provide treatment ]. Residual disinfectant and disinfection byproducts must be monitored as required by the National Primary Drinking Water Regulations (40 CFR Part 141) and state drinking water standards.
3. Dispose of package(s) and spent envelope(s) according to instructions on package label. Do not reuse.

NOTE: Use ultra-low-range *Selective Micro*<sup>®</sup> *Chlorine Dioxide Test Strips* to verify concentration at downstream production points. Organic loads vary across water supplies, and will influence injection level necessary to ensure 3.0 ppm concentrations at emitter hoses, mist nozzles, drip tubes, and other point-of-application.]

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### FOR CONTINUOUS TREATMENT TO INHIBIT THE RE-ESTABLISHMENT OF SLIME, ALGAE, and BACTERIA AT A CONCENTRATION OF 0.8 PPM

1. Activate *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] according to "Directions for Use" on product label.
2. Using a dosing pump, add activated *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] to watering system until water reaches a concentration of 0.8 ppm (required concentration levels vary according to site-specific conditions—monitor the microbial content of the water and increase or decrease the addition rate of the activated solution as needed).
3. Dispose of package(s) and spent envelope(s) according to instructions on package label. Do not reuse.

NOTE: Use ultra-low-range *Selective Micro*<sup>®</sup> *Chlorine Dioxide Test Strips* to verify concentration at downstream production points. Organic loads vary across water supplies, and will influence injection level necessary to ensure 0.8 ppm concentrations at emitter hoses, mist nozzles, drip tubes, and other point-of-application devices.

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## PLANT AND CROP APPLICATION OF FLUME WATERS FOR CONTROL OF SLIME

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## **This product can be used to treat slime [and other bioslimes] in flume waters.**

1. Activate *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] according to "Directions for Use" on package label.
2. Add activated *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] to flume via a dosing pump at a concentration of 50 ppm (50 mg/liter) and let stand overnight or circulate for 10-15 hours.
3. To prevent slime growth after initial treatment, add *Selectrocide*<sup>®</sup> 2L500 [*SelectroFresh 2L500 Food Processing*] using a dosing pump to the water at a dose of 5.0 ppm (5.0 mg/liter) chlorine dioxide. Minimum contact time for control of listed pathogenic organisms is 5 minutes.
4. Drain and rinse flume with clean, potable water before putting system back into use.
5. Dispose of package(s) and spent envelope(s) according to instructions on package label. Do not reuse.

### **Additional Professional Use Sites (Graphics to Depict)**

(May Be Listed On Product Label):

Ambulance  
Health Club  
Public eating places  
Warehouse  
Club  
(Institutional)  
Hotel/Motel  
Public Facility  
Blood Bank Kennel Public Places Wrestling Match  
Cafeteria (Kitchen)  
Laundromat  
Recreational Center  
Clinic  
Restaurant  
College Locker  
Commercial Building  
Military Installation  
Day Care Center  
Nursing Home  
School (Bus) (Vehicle)  
Dental Office  
Office Building  
Shelter  
Patient Room  
Pharmacy  
Veterinary (Office) (Clinic)

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Health Care Facility  
Physician's Office  
Waiting Room  
Additional Hard, non-porous surfaces: may be listed on product label an  
Bathroom Surfaces Examination Tables  
Parquat Sinks  
Patient Chairs  
Bed Frame  
Fixtures  
Plastic (mattress covers)  
Stretchers  
Bidet Furniture  
Portable Toilets  
Table Tops  
Brass  
Recycling Bins  
Telephones  
Cabinets Glazed Ceramic (tile)  
Refrigerator Exteriors  
Toilet Seats  
Ceramic Floor  
Glazed Porcelain (tile)  
Salad Bar  
Sneeze Guard  
Tools  
Chairs  
Laminate (surfaces)  
Sealed Granite  
Urinals  
Chrome  
Sealed Marble Vinyl (tile)  
Clean up Carts  
Linoleum  
Sealed Quartz  
Washable Walls  
Microwave Oven  
  
(Exterior) Sealed Stone  
Wheelchairs  
Door Knob  
Mirror  
Sealed Stone Interiors  
Outdoor (patio) furniture  
Shower Curtain (plastic)

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**Optional Marketing Claims (Graphics to Depict)**

Kills Germs

Kills bacteria, specified viruses\*, bacteria and fungi^

Spray directly onto surface to be treated

Easy to use, apply to surface and allow to air dry

Ideal for commercial kitchens, bathrooms, laundry rooms, and locker rooms

Kills odor causing bacteria, and algae caused by flooding, water leaks, storm damage, or excess dampness

Contains no phosphates

Dye and Fragrance Free

Hard Surface Disinfectant

CIO2 Generating System

Formulated for Hospital Use

No Rinse Formula

No Rinse Required

Leaves No Residue

No Harmful Residue

Just Add Water

Selective Micro Technologies Logo

Questions? Call (855) 256-8299

Scan for more Info (QR CODE)

See full directions for specific uses and precautionary statements.

Use as Refill for *Selectocide*<sup>®</sup> (Description) and (Part #), and/or mop bucket, and/or pressure sprayer, and/or pump sprayer.

\*See Page 4, ATCC designation for viruses tested

^Kills Athlete's Foot fungi

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*Emerging Viral Pathogen Claims*

This product qualifies for emerging viral pathogen claims per the EPA’s ‘Guidance to Registrants: Process for Making Claims Against Emerging Viral Pathogens not on EPA-Registered Disinfectant Labels’ when used in accordance with the appropriate use directions indicated below.

This product meets the criteria to make claims against certain emerging viral pathogens from the following viral categories:

- Enveloped viruses
- Large non-enveloped viruses
- Small non-enveloped viruses

For an emerging viral pathogen that is a/an..	..follow the directions for use for the following organisms on the label:
Enveloped Virus	Poliovirus
Large, non-enveloped Virus	Poliovirus
Small, non-enveloped Virus	Canine Parvovirus Poliovirus

**[Product name]** has demonstrated effectiveness against viruses similar to **[name of emerging virus]** on hard, non-porous surfaces. Therefore, **[product name]** can be used against **[name of emerging virus]** when used in accordance with the directions for use against *Poliovirus* and *Canine Parvovirus* on hard non-porous surfaces. Refer to the **[CDC or OIE]** website at **[pathogen-specific website address]** for additional information.

**[Name of illness/outbreak]** is caused by **[name of emerging virus]**. **[Product name]** kills similar viruses and therefore can be used against **[name of emerging virus]** when used in accordance with the directions for use against *Poliovirus* and *Canine Parvovirus* on hard, non-porous surfaces. Refer to the **[CDC or OIE]** website at **[website address]** for additional information.

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